

**WFFJF
DIGEST**
the official publication of the Worldwide TV-FM DX Association

DECEMBER 1978



*Merry
Christmas
&*

Happy New Year



From The Staff:

WTFDA Headquarters, P.O. Box 202, Whiting, Indiana 46394

FROM THE EDITOR: Over the past few months I have found the position of Editor-in-chief to be more and more intolerable. I have concluded it is no longer worthwhile to continue as editor with the current situation.

As can be implied from my comments in previous issues the lack of support in the technical area is a factor for my resignation but it is not the complete reason.

There are additional factors for my decision. The first being the lack of support for the projects I proposed by both the general membership and the Board of Directors.

I do wish to thank the few of you who have given your support and also to thank all of the column editors for a very fine job.

Bill Thompson will be the WVD's new Editor-in-chief starting next month. I hope the club can give him more support than it has given to me.

FROM THE STAFF Continued on page 42

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Frank C. Gelsinger



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MAILBOX

John Zondlo
6617 Maryland
Hammond, IN 46323
(219) 844-8694
Deadline: 10th

New Members:

Frank Malchick
Michael Lauman
Tanio Sugihara

700 Leeds Ave.
1855 Lakeland Drive
1107-1 Enya-Gho
Izumo-shi
Route 2, Box 156

Monessen, PA 15062
Jackson, MS 39216
Shimane, 693 JAPAN

Wayne Thompson

Silver Springs, FL 32688

Renewals:

B.W. Battin, Tom Bishop, John Callarman, Vernon Eaton, Perry Ferrell, Robert Foxworth, John Jefferson, William C. Palmer, Lee Prescott, W.T. Ryan, Marvin Shults, Robert Sowinski, Jim White, Thomas Yeazell, Tom Yingling.

Address Changes:

Doug Everitt-No. 2 Highpoint Park-2700 N. Van Buren-Enid, OK 73701
Rod O'Connor-USCG Base-259 High St.-S. Portland, ME 04106
Joseph Smith, Jr.-196 Ackley Ave.-Johnson City, NY 13790
Alphonse Tobis-7603 Linden Court-Newark, CA 94560

Rejoins:

Jari Pitkanen-Kattelus-10360 Mustio, FINLAND

Renewals Due in January:

Robert Baxter, Randall Clark, Wayne Covington, Bruce Goldsen, Carlton Howington, Rod Luoma, Clint McAuliffe, L. Donald Richard, David Rogers, Paul Traska, Morgan Williams.

New member MICHAEL LAUMAN has quite an array of DX gear. His shack features a Sony KV-2141R TV, 2 stacked Channel Master 3617's at approximately 60', a Channel Master 4251 parabolic dish, 2 CM rotors, a 30 db CM VHF amp, a 21 db CM UHF amp, a McIntosh MR78 tuner, and 2 stacked 4408 FM yagis. Not bad, eh?

TANIO SUGIHARA is one of many Japanese joining WTFDA. He will explain why in Tidbits. Tanio is also a member of DSWCI and ISWL.

Various publications introduced WAYNE THOMPSON to WTFDA. Wayne is a master builder of antennas, as he'll tell you in Tidbits.

Tidbits.....

I'm sure we're all very sad to see Frank Aden resign as editor-in-chief. We owe him a great debt of thanks for the year he has handled the job. Please be sure to support new EIC Bill Thompson, who'll take over with the January VUD.

Here's why we have several Japanese members, according to Tanio Sugihara: "One of the most popular SWL magazines in Japan, "Tampa" (Tampa means Shortwave in Japanese), has introduced WTFDA in the series of SWL Clubs in the World. And here in Japan, interest of DXing on VHF is increasing now. I've now been named as the VHF editor of Tampa, and will know how you are doing over there. The Es high season of this year has ended. I've received as last year the following countries: Russia, China, Taiwan and Hong Kong. Korea stands too near for me to hear them by Es, but I can hear some South Koreans by tropo. And in this autumn we are having very good F2 and TEP again. I think there is a chance for you to catch some South American TV, possibly on channel A2. And in the west coast USA there is also probably a chance to catch Hawaii and American Samoa on ch. 2."

Now these words from Wayne Thompson: "I was an A&E mechanic in the Air Force for eight years (to 1970), and since have been in the mobile home business. I was DX'ing SW at a young age of 13 on a Philco 4-band receiver. My father was probably one of the first persons in Canada to home-build a TV set. This was back in 1946-47, or it might have been later. But, I'll always remember that little round 4" green picture tube. I think they did a little DX'ing back in them days too, but only from New York state. Anyway, the total inspiration has come from him as far as radio and TV is concerned. I seriously started VHF-UHF DX'ing about 3 years ago after finding it was really a thrill to monitor stations out of state. Before then, we were the casual SW listener (which, to me, gets boring after a while), and, after watching a picture from a station 1,000 miles away or so, I was completely hooked. Don't get me wrong, I'm still an avid SW listener and flip the dials regularly, but the TV spectrum has sort of got a hold of me. Anyway, down at this "shack" we have some home-built "1-tubers" for LW, a Heathkit SW-717 (built 2 years ago) and a Radio Shack DX-150B for SW

(Thompson cont.) listening on a 95' longwire antenna, a 4 band RCA portable radio (AM-FM-AIR-POL) bought back in 1970 (I run this off of the longwire antenna and it is modified antenna-wise). I was, at one time, going to dismantle this radio for the goodies inside, but it tracks so good on FM I decided to let it be. We have some other nondescript FM radios out in the shack, which we use from time to time (mostly out of consoles, one from Germany), but they are slowly gathering dust. For the "snow-bands" we use a Quasar WL9419PP with 3 I.F. stages, a really nice color TV; VHF - I really don't know where this antenna came from. The KYL went down to Tampa about 4 years back and came back with this thing. It might be either a Grants or K-Mart "Special". Clean it up every year and it keeps on "tickin'". UHF- my father found this corner reflector in the garbage dump down in Arcadia, Florida.....apparently somebody didn't like the results off of this thing. It serves me pretty well, so it's their loss. The VHF is at 30' and the UHF antennas at 15'. I realize this is kind of backwards as to the stacking, but as far as the "lobes" are concerned, this is where it works well, for the locals, and trop. Although I have done much DX'ing on the Quasar for the last couple of years, we have a Zenith HQ92X, which I believe beats all others (or can hold its own) on a B/W receiver. This little 9" fellow has 4 I.F. stages and can take almost anything put into it. However, I found out you can overload it. As a DX'ing receiver I don't think it can be beat; when I first got it, I used the built in dipole for stations up to 60 miles away. This was regular transmissions; a little fuzzy maybe, but they still came in. Well, what may be of interest to you is the fact that the Zenith HQ92X is driven off of home-brew antennas. That TV has never seen a "commercial" TV antenna since I received it. For the last 3 years that has been sort of a hobby with me, designing and building my own TV antennas, some flops and some really good designs. My father writes every once and a while and sends some plans for an antenna (which I quickly modify), as he likes to fool around now that he's retired. (He cuts them for the southern stations). This afternoon I just finished a special Es antenna for channel 3 just in case we might get some Es during the cold months (December). Anyway, just thought you might like to know you don't have to have a Winegard or a preamp to get tropo or Es, as I usually get them all the time. Here I get carried away again, but how is WJWJ channel 16 from Beaufort SC (9AM EDT) on a design you made yourself? As of now (subject to change), I have 2 UHF and 2 VHF antennas on a single mast, all home built by me (all turned by the "armstrong" rotor). What I would like to clarify is this- I have fun DX'ing on my home-brew antennas and anyone wanting these simple designs to try them for themselves (simple in a sense anyone with technical skills can construct them), write to me and don't worry about postage; this is simple "grass roots" DX'ing with basic equipment. And that's all I have, basic equipment for good DX'ing."

WTFDA comptroller Gary Olson has a new job. He's now the national sales manager for NEC America's Video Products Division. Gary is still based in Chicago. He writes, "Am definitely going to get my tower back up next spring. Working on plans for it now. Trops in August and around Labor Day were so intense I was getting fantastic things off antennas in the attic- so I guess my interest has been whetted again. I guess it's been 3 years since I actively DXed the last time!" Too long for an old pro like Gary, hi.

This word in from member Mel Wilson (17 Van Cortland Drive, Pittsford, NY 14534), an Es expert: "I am writing in regard to the letter from Mr. E. B. Dorling, reprinted by permission in the July '78 WUD. This excellent summary of the formation of sporadic E layer can, however, be misleading to the VHF DXer. The problem lies in the fact that for VHF propagation to take place there must be embedded in the layer a "cloud" or "blob" of much greater ionization density. I suggest the use of "intense sporadic E" to denote what is required for VHF propagation. It must be understood, however, that a sheet of sporadic E layer as outlined by Mr. Dorling must be present before an "intense sporadic E" can exist. The mechanics of the formation of "intense Es" is not known, but I have suggested that it could be caused by turbulence (QST December 1970). The behavior of the intense Es cloud is the prime concern of the VHF DXer and not the simple sporadic E sheet."

From Canada we have these words from Eldon Luoma (10653 137A St., Surrey, BC V3T 4J7): "Keep up the great publication. I'm very satisfied with the bulletin layout and information. Hopefully several friends will be joining WTFDA soon. They've been thinking about it for the past year. Guess it's the slow apathy of Canadians that makes our decisions take a long time, hi!!! Oh well, I'm sure they will join eventually. Have added several new 10 element FM beams here, and they are working well. DX hasn't been bad this season, but could be a lot better. Managed to hear KHPE 107.9 Albany OR, also KCHO-FM and KDUK-FM Aberdeen were coming in. Haven't managed to hear any California FM yet. Still trying though. A pirate FM noted on 90 MHz (89.7 with digital tuner) in the Surry-New Westminster area. They are off now but were a regular each night during May and early June."

A recent new member, Walt Breville (9127 Coral Drive, St. Louis, MO 63123) has these comments: "I just joined WTFDA. Matter of fact, I paid my dues to John Zondlo at the Louisville convention, which I really enjoyed. I've been with the DX-hobby club scene for 14 years, belonging to NRC, IRCA and ASWLC. My log at my city location is now at 91 FM stations from sporadic efforts at trying the FM band for 10 years. I have been hampered by close-by transmitter towers to the south, west and NW (all line-of-sight), with a bunch more not much farther. Recently I did something about my terrible location in south St. Louis county by buying a country house 40 air miles from the closer St. Louis area towers. It's an A-frame cabin on 3 acres near Wright City, Missouri, 45 air miles west of downtown St. Louis. In a period of 12 weeks of DXing there I have logged 83 FM stations. My equipment consists of a Marantz 2270 receiver and Rembrandt rabbit ears at my St. Louis home. At the country cabin I have been using a recently purchased Technics ST-7300 tuner, using an old Magnavox console for amp/speakers and just the dipole wire that came with the tuner for antenna. Now I just finished erecting an 8 element Winegard yagi and Alliance rotor over the A-frame, 25' above ground, sufficient for it to look over one of the higher hills in the area, which my cabin is almost at the top of. Haven't had much chance to really try it out yet, but I'm really looking forward to finally getting into FM DXing with rotating outdoor multi-element antenna. It looks like my VHF-UHF activity will be confined to FM for the foreseeable future, although I find reading about TV and utility DXing feats in VHF-UHF Digest enjoyable and interesting. Keep up the good work!"

FCC FM editor Bruce Elving (18 1/2 East 5th St., Duluth, MN 55805) comments on a recent Mailbox item: "Is return postage really necessary when soliciting a verification (QSL)? Don Davis makes the statement that failure to include return postage, "...is the #1 reason so many stations won't verify." This statement is not supported by some research I did. In 1976 and 1977 I sent out 53 reports to FM stations, 23 with postage and 30 without postage. The delinquency rates were 30.4% for the group getting return postage and 33 percent for the group without postage. You can judge for yourself whether postage significantly increases the rate of return, and if it makes good economic and/or public relations sense. Having worked at a radio station I know that postage is a minor factor in mailing out a letter, and stations do not necessarily need this "bribe". I feel that if you can word a letter so that it is interesting to station management they will answer anyway. I certainly do not recommend using SASE's, as the station logo on the envelope is often the best you'll see. If I do use return postage I send commemorative stamps that have value to collectors even in used condition, if carefully soaked (not steamed and certainly not torn) off the envelope. My study does not purport to be definitive, and certainly there is room for more research in this area. I am not "bragging" about getting verifications without sending return postage, and I do not believe DXer Ross was either. With postage going up and up and DXers typically having low incomes (many being students), there is a need for fresh thinking in this area."

From Robert Goodman (5129 W. Roosevelt Road, Apt. B7, Cicero, IL 60650) we have this: "I've recently been in touch with Victor Frank (K6FV) about NOAA's ionospheric modification experiments. He said he'd be interested in getting reception reports from anyone who thinks he may have caught some DX caused by the Colorado experiments this past September 18-22. Mailbox looks like a good place to put this note and his address: Victor Frank, 12450 Skyline Blvd., Woodside, CA 94062. Victor Frank's a former member of WTFDA--he can't remember exactly when. He's written a number of propagation articles in Radio Science, Ham Radio, and QST."

A top BCB DXer, John Callarman (1122 Maple, Mt. Vernon IL 62864) files this report: "I do not want to miss a single issue of VUD, which continues to be one of the most interesting DX publications on the market today. I am still ill-equipped for FM or TV DX, and haven't found the time to go after it, either, so I've been a pretty doggone poor member. I suppose I could still use my 60-70 hour workweek and work on the NRC Log as the primary reasons, but I probably could find a little time if the spirit moved me. Keep up the good work." John edits the NRC Log, the finest BCB publication around.

A site has been chosen for the 1979 ANARC convention. It'll be held June 22-24 at the Radisson Hotel in Minneapolis, Minnesota. Host for the convention is Kim Andrew Elliott, with help from Tom Cavaras and Greg Ravenhorst (certainly a well-known shortwave DX trio). In other ANARC news, Wayne Davis, 27 Cleveland Ave., Trenton, NJ 08609, is the new Newsletter publisher. Executive Secretary Dave Browne found the publishing job, along with answering inquiries to ANARC, was just too much. Dave will continue as Executive Secretary for the next two years.

See y'all in January.....73.....jz

Bruce F. Elving, Editor
18½ East Fifth Street
Duluth MN 55805

NEW STATIONS GRANTED

AZ Chandler KRLG 102.9 100000 h.v.; 880' CA Altona 96.7 3000 h.v.; 300'; to have Spanish, English rock, L, r
CA Victorville 103.1 3000 h.v.; 23'; m
FL Gainesville '88.1 100000 h.v.; 77' U of FL
IN Evansville '88.3 45000 h.v.; 510'; sv, cv, j, TB
subcarrier; p. Southwest Indiana Public TV.
IA Dubuque 102.3 1400 h.v.; 440'; g
IA Spencer KRGS 104.8 3000 h.v.; 300'; g
LA New Orleans '88.3 54000; 600'; Bilna, etc. radio
MD Baltimore '88.3 WJUM 10.0; Johns Hopkins U., but not known if will share time with WSPH '88.1
Baltimore, Sparrows Point High School. Will Baltimore-area DXers be kind enough to call WSPH and/or WJUM to find out if these stations will share time or if they are separated by enough distance to operate separately and simultaneously?
NY Riv K289AQ 105.8 s, m [KSP1 100.3 Salt Lake City UT translator]; reincarnation of previous grant.
ND Williston 96.1 100000; 700'; g
OK Sulphur 100.9 3000 h.v.; 300'
TN Chattanooga WUTC '88.1 50000; 750' U of TN
TN Jackson 103.1 3000 h.v.; 300'; s
UT Montic 108.1 30000 h.v.; 130'; mt. Is it not known if this new Montic grant will result in the deletion or change of frequency of translator K288AM
105.8 Mand., which plays KSP1 100.3 Salt Lake City.
VA Lynchburg WNLG '88.3 100000; 1010'; g.
Lynchburg Baptist College
WV Morgantown '90.9 3000; 1440'; WV Br/Hopkins
WV Grantsburg 98.8 KLLK 29000 h.v.; 3500'; 92 km primary signal; 172 km secondary signal.
SC Charleston 101.3 230 watts. CBC, CBU relay
SC Sparrow 97.9 220 watts. —
SA Bellagard 81.9 4700 watts - CBC French-CBFX
ON AIR AND DX READY!

MN Forest Lake WLKX 98.8 s, m, r, k; 3000 h.v.; 300'; no network, sometimes non-DX as "Lakes 98."

FORMATS/NETWORKS

CA Jacksonville KJMP-FM 100.5 m (was gl; Stereo.
CO Pueblo KRLV 98.9 r (from m); A (from U); formerly KVMN.
DE Wilmington WJTM 83.7 r, "Rock-84" non-DX.
FL Plantation Key WX08 100.3 m; nicely jazz show.
ID Boise KNFR 104.3 r
IN Fort Wayne WCMX 101.7 m (from r), and back on the air. May revert to old music.
IN Jasper WJTF-FM 104.7 Associated Press Audio
IN North Vernon WOCH-FM 106.1 m
KY Munfordville WLGC-FM 102.3 r
MN St. Louis Park KFMX 104.1 r ("Disco" nicely.)
NY Binghamton WABL 98.1 r
NC Greensboro WQMG 97.1 r ("AR Fine Blue")
SC Cayce WZLD 98.7 r (from r); m (was k).
TN Chattanooga WDDO-FM 96.6 still k; m (was k).
TN Murfreesboro WMTA-FM 96.3 r (not mt.)
TN Shelbyville WTCV 102.9 Associated Press Audio
TX Lubbock KSEL-FM 93.7 r (from k)
KLBR-FM 94.8 m (from r)

IL Champaign WLRW 94.5 no vertical; station reports having a vertical antenna, but it is not in use and has no plans to use same.
IL Springfield WVEM 101.9 no vertical
IN Indianapolis WBDG '90.9 400 h.v.; 78'
IN South Bend WBRB 103.9 no vertical
KY Hodgenville WKMD 106.3 300' 13000 h.v.; r (not k) - still rock oldies.
LA Monroe KMLU '88.2 50' 1500 (horizontal); 75'
MD Ocean City-Saltbury WBOC-FM, "FM-105," 33.000 h.v. (510')
MI Frankfurt WBNZ 99.3 1450 h.v.; 410'
MN Bemidji KRSB from 99.1 to '89.7 115 (h); 125 feet.
MT Billings KEMC '91.7 700 (h); -200'
KY A 93.3 99000 h.v.; 700'
TN Thief River Falls KOSN 99.3 175' 13000 h.v.
NC Charlotte WFAB from 90.8 to '90.7 with 100000 h.v.; 225' (from 10 watts). (1420 feet)
NC Winston-Salem WTCR 104.1 100000 h.v.; r
OH Bellevue WRRR 92.1 no vertical
OH Hamilton WKV 103.5 50000 h.v.; 500'
OH Yellow Springs WYSO '91.5 10000 h.v.; 400 (400 feet)
SC Anderson WAIM-FM 101.1 10000 h.v.; 310'
TX Atlanta KPYN 99.3 200' 13000 h.v.
TX Austin KUT-FM from 90.7 to '90.5 100,000 h.v.; 960'
TX Houston KTSU '90.9 15,500 h.v.; 265'
TX Odessa KOP 98.9 100000 h.v.; 420'
TX Port Aransas KYS 98.5 62,000 h.v. (380')
UT Ogden 97.9 26000 h.v.; 3770'; 92 km primary and 175 km secondary coverage
UT Salt Lake City '90.9 16500 h.v.; 3700'
WA Spokane KPSX '91.1 100000 h.v.; 43000'; 1530'; KREM-FM 92.9 81,000 h.v.; directional aerial with 3000' above average terrain.
WA Tacoma KPLU '88.5 100000 h.v.; 98000 v; 620 foot above average terrain.

CALL LETTERS

CA Sacramento '91.8 KYDS ("Kids")
92.5 KAFB (KAFB-FM)
107.9 KXOA-FM (KXOA)
107.1 KAFI-FM
92.1 WCAZ-FM
98.7 KKKX (KOP-FM),
to 100,000 watts h.v.; 230 feet.
KS Persons 93.5 KLCX-FM
MA West Yarmouth 94.9 WSOX-FM ("WOCB-FM")
MI Grand Rapids 101.3 WPPX (WMLW)
MN Morris 98.7 KKRK-FM ("KMRB-FM")
MS Jackson 94.7 WKXI-FM (WKXI)
MN Espanola 100.3 KESQ (KESQ)
NM Roswell 97.1 KIZZ (KASY-FM)
NY West Nyack 92.7 WYUT
ND Minn 97.1 KIZZ (KMOT-FM)
OR Hobart 104.9 KGTZ
OR Coos Bay 93.8 KICR
OR Eugene 97.9 KUGN-FM (KFMV)
PA Pittsburgh 107.9 WDSY (WEEP-FM)
WI Superior 102.5 KZIO - one of WI's few "K" stations, but with studios and transmitter in Duluth MN.

ABBREVIATIONS

c classical music, g gospel, j jazz, k country, L Latin, m is middle of the road or easy listening music, r rock, rp album-oriented rock, s soul, t talk, and es is so-called "disco." Networks: A ABC-FM, E ABC Entertainment, I ABC Information, M Mutual, N NBC, P National Public Radio, S Associated Press Audio, U United Press Audio, Y ABC contemporary.
\$ is stereo, † stands for a station having an SCA (67 kHz FM subcarrier), h is horizontal effective radiated power in watts, v is vertical effective radiated power in watts, antenna heights are above average terrain and expressed in feet, although we'd much rather express them in meters and be in step with the rest of the world!

READERS' REPORTS, COMMENTS

David Leibold reports that there's a controversy over country music in London, Ont., with CPFL-FM 95.9

wanting to switch to k, while CJBK wants an FM station with a k format. CRCTC policy says no two stations can have the same format in the same market area. CJBK wants 92.7, as does Stratford ON.

A few readers said they enjoyed the article on my 30 years' DXing, and it reminded John Ebeling that the "announcers on WWCF [94.9 Baraboo WI] always had such strange voices. Never said anything but 'WWCF high atop the Baraboo WI bluffs in Greenfield township, the heart of Wisconsin's vacationland!'" A news article said installation of the FM antenna poles atop the IDS tower in Minneapolis is half-way completed, and all the stations should be on the air with 100 kw, h & v at 800+ feet after Jan. 1.

WRFY 102.5 Reading PA erected a new tower, dwarfing the old one, but reduced its power to 15000 h.v.; 810' and Vic Melis said he picked them up before in Ocean City NJ at 120 miles, but since the new tower went up, he's had trouble receiving them beyond Glassboro NJ, about 85 miles.

CHUC Cobourg ON, after a series of misadventures communications with the CRCTC, promised to build CFMX on 103.1 and have it on the air by Nov. 30, 1978, or give up the CFMX permit. So monitor 103.1 and see if CFMX survives!

Randy Clark got a notarized FM verification from WSIP-FM 98.9 in Paintsville KY. Say, if any of you DX AM and want a notarized verie from WWJC-850, write to my wife, Carol, who is their public affairs director, and a notary.

A rumor from Cleveland has it that WBOE '90.3 is going off the air for lack of funds to meet expenses; is it (or was)? the Cleveland School board station, and one of the nation's oldest school stations. Perhaps they'll cut back on public radio offerings, but stay on the air for school programs.

KEAR 100.5 Sacramento tells me they have a new 950-MHz microwave link for rebroadcasting KEAR San Francisco, which is improving their sound quality, plus KEAR has local public service programs done on its own. Carl Auel, station manager, says most Family Radio stations



FAMILY RADIO

RADIO STATION KEAR (FM 100)
3108 Fulton Avenue
Sacramento, California 95821
get their "network" programs on 14" automation tapes for 1-time release.



DX is on the
air and DX
ready!

ON London C1XX '108.8 c, non-DX as "S-X," 3000 h.v.; 125 feet.

SCA (67 KHZ; SYMBOL †)

NC Kinston WYMS 95.1 ABC relay (was music)
OH Cincinnati WGUC '90.9 talking rock (believed to have classical music on SCA early mornings)

NON-IDERS

FL Coral Gables WVUM '90.5 FM-90
FL Miami WFTM 93.5 FM-90
WV Huntington WKEE-FM 100.5 "Key-FM"

TO GO STRETO

IN Muncie WBSY '92.1, heard testing in stereo

FACILITIES' CHANGES

AL Montgomery WFTM 98.9 98000 h.v.; 490'
AL Sheffield WRCK 106.3 1750 h.v.; 380'
AL Tuscaloosa WTUG-FM 92.7 3000 h.v.; 200'
AZ Tucson KJYZ 94.9 60000 h.v.; 1800'
CA San Clemente KWVE 107.9 550' (50000 h.v.)
CA San Francisco KEAR 106.9 adds r (former KMPX facility)
CO Greeley KUNC '91.5 50000 h.v.; 570'; 37.74 miles
FL INLE-FM 105.9 100000 h.v.; 690'
FL Ocala WMOG 92.7 3000 h.v.; 1290'
GA Athens WUOG '80.6 9500 h.v.; 180'

FCCTV NEWS

John F. Combs
2485 Ivan Ct.
Orlando FL 32807
305-677-0066

December 1978

NEW STATIONS ON-AIR

KTOO-3 Juneau AK PBS 9-29-78
WNNE-31 Hanover NH ??? 9-27-78
WPTT-22 Pittsburgh PA Ind 9-15-78

CONSTRUCTION PERMITS GRANTED

Salinas CA, Ch. 56 ETV, 15.1, 2100
Springfield IL, Ch. 55+, 12.13, 454

CONSTRUCTION PERMIT CANCELLED

WVLD-18 Jackson MI

APPLICATIONS FOR NEW STATIONS

Ventura CA, Ch. 16+, 5.25, 755
Bridgeport CT, Ch. 43-, 1082, 702
(plans 100% female-oriented pgmg)
Bridgeport CT, Ch. 43-, 794, 570
Seaford DE, Ch. 38, 259, 317
(an ETV allocation, but commercial app.)
Bloomington IL, Ch. 43, 2095.2, 1026
Mount Clemens MI, Ch. 38+, 1243, 614
Lafayette LA, Ch. 15, 261, 209
Albuquerque NM, Ch. 14-, 1412.5, 4168
(wants pay-TV)

Eugene OR, Ch. 16+, 2650, 931
Lubbock TX, Ch. 34-, 85.3, 286

CHANGES GRANTED IN OPERATING STATIONS

KYEL-13 Yuma AZ to 1560 AAT (1420)
KAST-8 Phoenix AZ to 316-kw (117)
KLOE-10 Goodland KS to 980 AAT (770),
xmtr to 9 mi. N. of Edson (was in Goodland)

CHANGES GRANTED (continued)

KLPY-10 Lafayette LA to 309-kw (302)
WBFF-45 Baltimore MD to 5000-kw (1580)
WTVU-11 Durham-Raleigh NC to 1990 AAT (1490),
on WRAL-5 tower, probably...
WDCB-19 Adams MA to 448.7-kw (538)
WIPM-3 Mayaguez PR to 79.4, 2274 (35.6, 590)
WGGS-16 Greenville SC to 1150-kw (229.6)
KDLO-3 Watertown-Florence SD to 1680 AAT
(1393), move xmtr .5 mi. N. of present site

CHANGES IN CALL LETTERS

KPWR-17 Bakersfield CA (ex-KJTV)
WMCC-34 Binghamton NY (ex-WBJA)

CHANGES IN ALLOCATION TABLE

Location	Add	Delete
Decatur AL	-----	23
Huntsville/Decatur AL	54	-----

PAY-TV GRANTED

New 61 Cleveland OH
STATE OF THE INDUSTRY

Commercial TV:	VHF:	515	
	UHF:	205	
	Total:		720
Educational TV:	VHF:	106	
	UHF:	167	
	Total:		273
TOTAL TV ON-AIR			993

There is also a veritable deluge of translator information this time which I am unable to compile right now due to time limitations. Such is the life of a student, hi! I would like to indicate that any foreign information should be directed to Ken Simon for the International DX column. His address is: 528 Pilgrim Rd., West Palm Beach FL 33405. Ken has heard TV audio from Europe in recent days and would like to hear from others who have been logging these signals. I lack a 30-50 MHz receiver, so I'm forced to miss out on that aspect of DX for now. Again, I apologize for such a short column, and for any typos that may occur (I'm SO tired!), although I didn't find any. Next month's column should be rather voluminous for a change. HI! 73.....JOHN!



International Radio Club of America

P.O. Box 26254
San Francisco, CA 94126
U.S.A.

The International Radio Club of America invites you to join us in the exciting hobby of Broadcast Band DXing. Founded in 1964, IRCA has over 400 members.

We publish our bulletin, DX MONITOR, 34 times a year (more than any other Medium Wave DX Club in the world), weekly during the winter and monthly during the summer. Regular feature include reports of reception of domestic and foreign stations; feature articles on propagation, stations, DXing techniques, equipment modifications and equipment reviews; and information on call letter, frequency and programming changes.

Membership dues in North America are \$16.50 yearly (U.S. funds). The first year includes 32 issues of DX MONITOR and our new member booklet, "Principles of Broadcast Band DXing". Thereafter, you receive 34 issues a year. We also offer a trial membership for \$6.00 which includes 10 issues of DX Monitor and a new member booklet.

For a sample copy of DX MONITOR, send 50c to IRCA at the above address. We'll also send you information on our extensive supply of reprint articles and our annual IRCA Foreign Log.

We look forward to having you as a member of our club.

Morrie S. Goldman, 5915 N. Christiana Ave., Chicago, Illinois 60659

NETWORK DXes NETWORK... Network problems on October 12th brought some strange happenings. At about 8:45 PM CST, network stations lost their feeds and programmers started losing their minds. All three networks were affected as over 300 stations in the Midwest, West and South posted "please stand by" signs. The problem was the result of a power failure at a telephone company switching center in Chicago. The first of several failures started a scramble for substitute programming. Old movies and reruns were popular fillers, but one station had a better idea. WMAQ-TV beat the system by retransmitting the over-the-air signal of WNDU-TV, channel 16 in South Bend (about 90 miles distant). The not so quick-fingered engineers at WMAQ even carried WNDU's ID at 9PM CST! Most problems were cleared up by 9:30, though many stations finished out their fillers rather than switch back to the network programming.

WHICH SET IS BEST FOR DX? MANUFACTURERS MAY BE FORCED TO TELL US... The FCC has just opened an inquiry to determine whether TV set manufacturers should be required to label their products with noise figure or sensitivity figures. The FCC wants to know if such information would help consumers select sets for best reception. What information would be included and what form it should take, has yet to be decided. The Docket is known as 78-307 and you can receive a complete copy from the Consumer Assistance Office, Federal Communications Commission, Washington, DC 20554. You can comment on the notice (before Feb. 1, 1979) by writing to the Secretary, Federal Communications Commission, 1919 M. Street, NW, Washington, DC 20554 (an original and 5 copies are required).

INSTANT FM IDs COMING? Popular Electronics reports that Philips Research Laboratories has developed an experimental system to automatically display call letters on the listener's receiver at the moment the station is tuned in. The secret of the system is a digital signal to be transmitted by FM stations along with their programming. When the listener tunes in such a station, a decoder in the receiver translates the code into the call letters of the station received. The system is experimental and production will "depend upon international agreements and the cooperation of broadcasting authorities."

MORE TV AUDIO TUNERS ON THE WAY... With broadcast TV sound now stretching out to 15kHz, audio equipment makers are readying high-quality TV sound tuners for the US market. Pioneer was first with its TVX-9500. Hot on the heels of Pioneer will be Kenwood, JVC and others. The TVX-9500 was evaluated in the November issue of Audio with the following test results: IHF sensitivity- about 5uV, 50dB quiting- 8uV, S/N ratio- 75dB, Capture ratio- 1.3dB. The price? \$250.

EUROPEAN TV AUDIO RECEPTION WITH SCANNERS... The current sunspot cycle looks like it could be a great one for VHF DXers, so it's only a matter of time before the first report of BBC or ORTF audio appears in the VUD. BBC audio appears at 41.5MHz and ORTF at 41.25, well within the range of most multiband scanners. Unfortunately, a scanner, any scanner, is an FM receiver. European audio is AM. FM receivers normally receive AM signals with much less sensitivity than they would an FM signal. In fact, AM rejection is normally considered an advantage and may be found on spec sheets. On stereo receivers, AM rejection is commonly around 60dB. Fortunately, AM rejection on scanners is nowhere near as "good." As a result, European audio could be received on a scanner, but only if the signal is relatively strong. Adding to the problem is the fact that modern scanners are quite selective; their limited bandpass may clip the broad AM audio causing some distortion. Older scanners may be better for this type of reception than the newer units, since their selectivity and AM rejection figures are "inferior" to modern receivers. It should be interesting to see how scannerized members fare with reception of BBC and ORTF.

VCR UPDATE... JVC has introduced a new VHS video cassette recorder with a unique double speed feature. When the recorder is switched into the double speed playback mode, both sound and picture run at twice the original speed. To prevent the audio from sounding like a bunch of chipmunks, a digital circuit restores the audio to its natural pitch. The exact reason for offering this feature is unclear, but it allows you to view two hours of television in one hour...Hitachi is out to prove that the numbers game doesn't end in audiophile circles. Their new VHS recorder is said to offer a 46dB signal-to-noise ratio. That figure would top any other home VCR. Let's see, who'll make it 48?

YOUR NEWS IS NEEDED... If you spot an article or news item in a local paper that would be of interest to WTFDAers, you are invited to forward it to this editor for coverage. Items relating to FCC stations news should still be sent to the proper FCC news editor. WTFDA Newswire will return in February. 73, Morrie

INTERNATIONAL NOTES

Randall B. Clark--Parkersburg WVA

17OCT78 1556Z ch. B01 BBC-1 DAVIS, MI
ch. F02 TDF TROYES, LIMOGES, CAEN or BASTIA, France
also repeats of BBC-1 (location?) on OCT 20, 21, 23, 24, 26, 27

William Godbey--West Palm Beach FL (scanner)

30OCT78 1200Z ch. F02 TDF w/ def. PP music and announcement
TROYES, LIMOGES, CAEN or BASTIA, France

DAVID CRAWFORD--Oak Hill FL (scanner)

28OCT78 2000Z ch. B01 BBC-1 CRYSTAL PALACE, England
ch. F02 TDF TROYES, LIMOGES, CAEN or BASTIA, France

BILL GRANT--Worcester MA

In OCT logged BBC1-DIVIS and CRYSTAL PALACE and TDF

GLENN JACOBS--Moscow PA (British standard TV set)

In OCT logged both BBC1's audio as well as TDF

A GOOD START! Will have information on QSLs soon...My upconverter is being repaired or checked out so I'm out of it for a moment...Keith Hamer reports some A2 and A3 reception this summer in the UK...Maybe he can send us details and we can try to ID them.

THIS COLUMN is only as good as its reporters! Sometimes information from non-WTFDA members will be reported. This is done in the interest of INFORMATION!

WE'D like more information on reception systems...so keep those letters and calls coming...If you call try after 5 pm...NO COLLECT CALLS, please. ANYONE WITH ANTENNA IDEAS etc..please write...

THAT'S ABOUT IT FOR NOW, *Kew* KEN SIMON/528 Pilgrim/West Palm Beach/
FLA 33405 305-585-7415

Memorabilia

December 1978

Robert J. Williams
251 6th Avenue East
Twin Falls, Idaho 83301
Phone: (208) 733-3621
Deadline: 5th of Month

This month, MEMORABILIA looks back to a couple of TV "firsts" in the State of Florida. Thanks to Ken Simon of West Palm Beach for sending in the following article:

4-B ***** THE MIAMI HERALD Tuesday, May 16, 1978

Who's on First?

Any time a Herald writer undertakes to document a "first" occurrence of some event in local history, it invariably happens that another long time resident with a better memory than this writer's will report his first was only a second.

Mrs. Jack Murphy, now living in Fort Lauderdale, is one of these and she shot down my "first" by telephone the other day. I had recalled in the Living Today section of The Herald a week ago the excitement in Miami when WTVJ (Ch. 4) brought the area its first television service in 1949.

Specifically, I listed the night of March 21 of that year as the important date. That was correct enough, but Mrs. Murphy, with great grace, challenged me to examine the sports page of The Herald on May 30, 1946, three years before. There, she insisted, I would find a report of television here even then.

INTRIGUED as well as dismayed, I checked the microfilm rec-



**JACK
ANDERSON**
herald
tv-radio writer

ords of that day and sure enough on one of the sports pages was a story by Whitey Kelley, then a Herald writer but now with our sister newspaper, The Charlotte (N.C.) Observer.

Whitey told of watching the first quarter of the UM Hurricanes' game this night before with the Detroit Titans on experimental television.

The Dumont Television Laboratories of New York linked a camera in the Orange Bowl with a receiver (or receivers) in the Bayfront Park auditorium for an invited group of

Nostalgia Amended

curious viewers.

This pioneering event seemed to have underwhelmed Whitey. He appended it to a story that was devoted mainly to UM Coach Jack Harding's post mortem of his team's performance the night before.

WHEN HE finally got around to the TV end of it, he reported "that so say TV would replace the 50-yard line seat is stretching a point, but the game was screened amazingly clear" although it was hard to tell which team was which in the black-and-white picture on the screen.

Whitey was perceptive enough, however, to add that "there's no doubt that sitting in your living room to watch your favorite team each Saturday isn't far in the future."

I don't want to toss my overalls in Mrs. Murphy's chowder, but she would have to admit that my 1949 date marked the first publicly watched TV in this area. A demon-

stration in Bayfront Park really doesn't count.

Fest Probe

A five-part series exposing rip-offs in the post-extermination industry here is under way on WKCT (Ch. 7) in its 6 and 11 p.m. newscasts this week.

Titled "The Big Bite" the series, reported by Mark Wujcik, will consist of disclosures of fraudulent exterminators' pricing practices in Dade and Broward counties.

Keep 'em coming, guys. Without your support, this column would be nothing. See y'all in 30. 73s, gud DX,

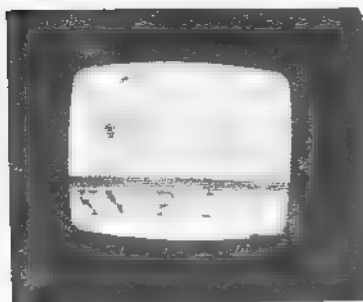
Merry Christmas to all! Bob

PHOTO NEWS

Jim Alexander
4 Brook Court
Parsippany, NJ 07054

December, 1978

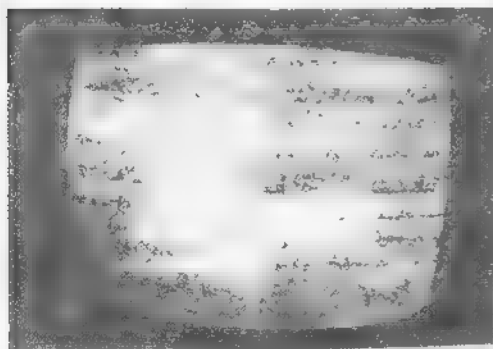
This month, PHOTO NEWS presents two pages of TV DX, including another super tropo catch. Don't miss Buck Battin's photo of WKPT-19, taken almost 900 miles from WKPT!



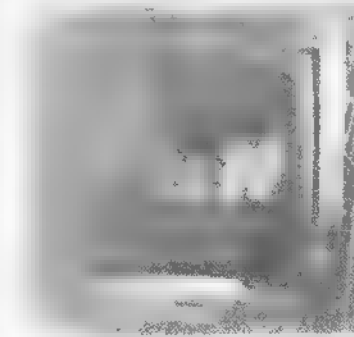
KNOP- 2 North Platte, NE
1,135 mile E-skip (Pizzi)



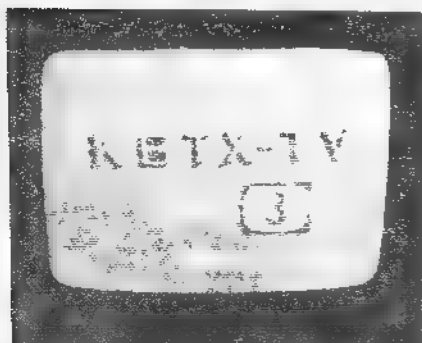
WGBT- 4 Harlingen, TX
E-skip (Simon)



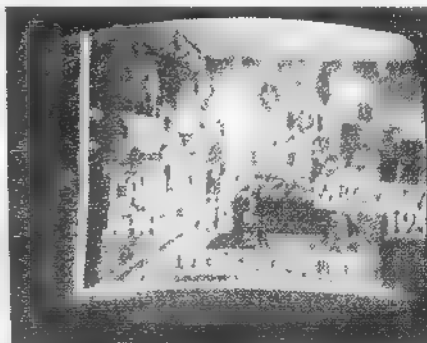
WKPT-19 Kingsport, TN
880 mile tropo
8/21/78 (Battin)



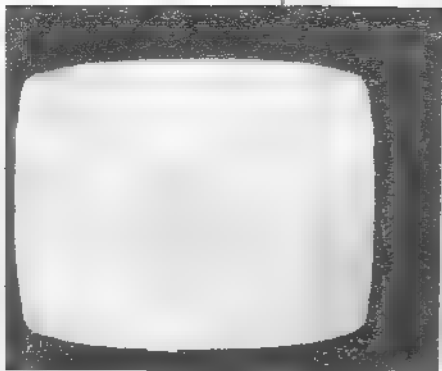
WTVU-11 Durham, NC
330 mile tropo
7/20/78 (West)



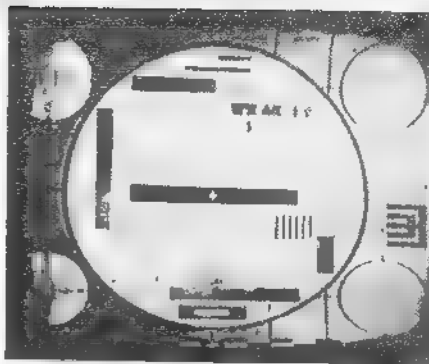
KBTX- 3 Bryan, TX
910 mile E skip (Combs)



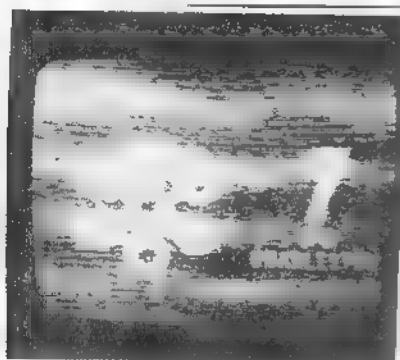
WBOY-12 Clarksburg, WV
255 mile tropo (Gaines)



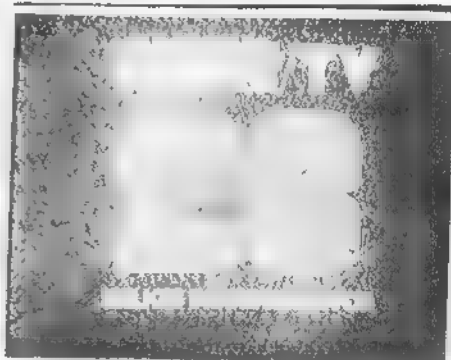
KHBC-3 Mexicali, BC Mexico
E-skip
2100 P.T., 6/4/76 (Aden)



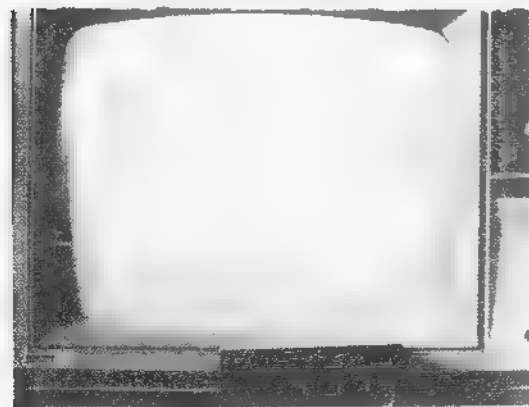
WKAR-32 Montgomery, AL
290 mile tropo (LeBlanc)



WIV-7 Charleston, SC
310 mile tropo (Combs)



WRE-28 Scranton, PA
385 mile tropo (Gaines)



WCIA-3 Champaign, IL
E-skip (Barber)

Contributors:

- Jim Pizzi, Grout CA
- Ken Simon, West Palm Beach FL
- Buck Battin, Duluth MN
- Steve West (photo taken at
Havertown, PA)
- John Combs, Orlando FL
- Paul Gaines, Detroit MI
- Frank Aden (photo taken at
Bend, OR)
- Ron Le Blanc, Marrero LA
- John Barber, Carolina RI

wishing a joyous holiday season to all... *Jim*

QSL CORNER

Thomas J. Yimline, Jr.
221 Pinewood Road
Baltimore, MD 21222
Deadline: 10th

FM-QSL

- DC WAMU 88.5 Washington, The American University, 20016. Letter from David J. Garner, CE in 1 week. Elvins
- WMZO 98.7 Washington, 1690 Wisconsin Ave. NW, 20007. Letter in 23 days from Frank Kramer, CE "...really appreciate your letter reception report of WMZO in Canada. I find this very interesting and most unusual." Sawatzky
- 4PDC 95.5 Washington, P. O. Box 8550, 20027. Letter & maps of am & fm station from Joseph Nunemaker, WA397X for Wilford K. Smith, Jr. CE. Elvins
- WMUC 101.1 Washington, P. O. Box 4068, 20015. Letter from Donald S. Culp, CE. Elvins
- FL WYK 99.5 Tampa, 1902 S. Kennedy Blvd, 33602. Letter in 3 months from Duane Cornett, CE "Our copy-operations girl got a kick out of it because she came from Petrolia, Ontario." Sawatzky
- WTGL 107.5 Miami, P. O. Box 450577, Shenandoah Station, 33146. Letter from Charles R. Veres, CF "400W in 9 months" "...this report really stands out of the "run of the mill" reports of reception of our AM station in Europe" Sawatzky
- IL WSPY 127.1 Plano, Route 1, Box 41, 60446. Letter from Larry (unreadable) President, Eddie.
- WIUP 97.9 Chicago, 875 N. Michigan Ave, 60611. Letter, unreadable name, CE. Eddie
- WRBC 101.1 Lincoln, 62656. "195 miles? Wow! Your reception of our station is the farthest that anyone has ever received us." Steven P. Berper, GM Elvins
- IA WIT 90.3 Sioux City, P. O. Box 265, 51102. Robert W. Thomas, Director verifies & sends a program guide. Elvins
- IN WFUI 103.7 Bloomington, Indiana University, Radio & TV Services, Radio-TV Bldg, 47401. Lengthy letter from Henry T. Ruh, "934W", CE. He describes his own fm set up as well as his ham activities. Sawatzky
- WVEZ 100.7 Elkhart, Box 879, 46515. Reply from Roger W. Bennett, CE. Eddie
- WN KFEZ 94.3 Afton, Box 230, 56431. Letter & rate card card from James J. O'Rourke, Program Director in 2 weeks. Yimline
- KYMR 94.3 Sack Centre, 503 Sinclair Lewis Ave, 56378. Letter & map from Thomas Dickhuth, Chief Engineer. Yimline
- OK WCVJ 90.9 Jefferson, P. O. Box 112, 44447. Letter & map from Myron Hubler, Ellis
- WRHN 98.7 Bellaire, Bellaire High School, 349-35th St, 43906. Report & letter signed Norman R. Russell in 4 days. Sowinski
- WSPD 101.1 Youngstown, 401 N. Main Ave, 44505. Long letter & report signed by Jerry Starr, Program Director reply in 17 days. Sowinski
- WOOL 98.5 Cleveland, 1715 Euclid Ave, 44115. Letter & map from Richard A. Schuh, Corporate Director of Enn. Yimline
- WVWJ 103.1 Johnstown, 43031. Richard M. Seiler, Jr. General Manager "You were indeed listening to WVJ." Elvins
- TM WPLN 90.3 Nashville, 9th & Union. Letter from General Manager, but unreadable name. Eddie
- WBTS 90.5 Johnson City, 37601. Dick Ellis, manager "We use the "-FM" with our call letters because there is a campus-limited station with the same call. Even though the "-FM" is not required since the other station is a carrier-current facility operated by students, we do in deference to the people at the other station." & mentioned transmitter at Holston Tn. Elvins
- WMWV 88.9 Chattanooga, 735 Market St, Suite 1002, 37402. Letter from Alan J. Hill, WA4GJ, CE. Sawatzky
- WSMC 90. Colledale, Southern Missionary College, 37315. Letter from Jerry Mathis CF who says he is an inactive ham. "...you have received us from a longer distance than anyone else." Sawatzky
- WVTE 101.5 Johnson City, P. O. Box 4, 37601. Letter from Ed Bryant, CE. Sawatzky
- WPIF 103.5 Knoxville, 1513 Hutchinson Ave, 37317. Letter from Robert Horton, Technical Director. Sawatzky
- WA WVA 115.9 Alexandria, 529 First St, 22314. Letter from Robert W. Taliaferro, Eng in charge. Mullis
- WYVA 94.1 Yorktown, P. O. Box 94.1, 23690. Letter & map from William H. Escho, Jr. General Manager. Mullis

Reporters this around are Donald Elvins, Gary Mullis, Editor Tom Yimline all from Baltimore, MD; Peter Sawatzky, Guelph, Ont; Robert P. Sowinski, St. Clairsville, OH; Bruce Elvins, Mulath, W; Richard Eddie, St. Louis, MO. This was an all fm qsl month. 3's.

WV

IN SEARCH OF PSB

Donald L. Elevation
1715 Earhart Road
Baltimore, MD 21221
#301-574-2714

IN SEARCH OF PARALLELS.....

This month's feature will deal with the subject of parallels, as we compare various types of probagation apparent with public safety frequencies. You'll find that the basic types of probagation that occur with TV and FM also occur with the public service agencies.

I will try to illustrate by placing before you the only example I have available. Keep in mind I try to steer clear of any attempt on my part to appear egotistical through my DX, but it is my only example, and one which I am familiar.

Beginning with the lower frequencies, skip, the probagation netting the longest distance, I'll try to explain. As I have attempted to explain previously, skip very frequently, but not always, occurs at the same time on public service as it does when it occurs on TV and FM. When TV skip is in from Florida, I try 45.06 for Florida Highway Patrol. By the same token when Missouri Highway Patrol is in on 42.06, I very often get lucky and receive KMOX on channel 4. Keep in mind the fact that there are times when skip on public service occurs when it does not occur on TV.

When skip is apparent on TV, skip on public safety low band(30-50) is generally the type that produces signal strength often referred to as full quieting, that is to say signal with no background noise, occasionally signal strengths being equal base and mobile.

My next subject will be VHF High(138-174). The type of probagation most evident here is tropospheric scatter or the inversion type probagation. This most frequently occurs in the spring and fall with occasional opening in the summer and winter. By the way, an opening is the DX'ers terminology for a period of time in which unusual reception occurs due to probagation. No set time period can be set for openings as the natural phenomenon that is responsible for this occurrence is largely variable in nature.

When tropo is evident on the VHF High Band, TV probagation is often possible on TV channels 7-13. Very often when channel 10 is receivable here, so are various frequencies from this band. Among them are Philadelphia Fire(154.235) Camden County Fire(154.43) Chester County Police(155.76) at distances exceeding 80 miles.

The UHF bands are also subject to probagation, though not to the extent of VHF High. The one interesting parallel that I have been able to draw with UHF(409-512 mhz) is that when Philadelphia Police probagate to Baltimore, Boston U's are evident on TV. The gain that is necessary for UHF probagation makes it difficult on PSB.

Let's stop for a moment to glance at the setup that I utilize for the reception of public service frequencies. The radio that I utilize is a Bearcat 210, no modifications were made for DX, so it would be as the average home listener would purchase for the reception of hometown locals. For the reception of distances beyond the average locals, one consideration is the outside antenna.

Many factors come to play in the game of DX'ing of PSB. terrain, height of antenna and altitude all come together to either complement or hamper your reception. Good altitude with higher altitude surrounding tends to cancel out the gain of the altitude. If however, your fortunate to be on top of a hill overlooking a valley, all I can say is good DX.

Antennas utilized for public safety come in a variety of forms and a variety of budgets. For low band a simple cut down CB antenna does excellently for low band. With such antenna, it is possible to receive the Virginia State Police in Culpeper, 125 miles away. To my north, I can receive the Cumberland County Police on 45.90 at 85 miles as well as I can receive the Dauphin County Fire radio on 33.90.

High band reception is accomplished with a quarter wave ground plane or a 5/8 wave gain type antenna. I use a 5/8 gain type antenna, which makes possible the reception of the Philadelphia Fire Department(a distance of about 85 miles).

UHF is quite a different story, however. In order to receive Baltimore Police Department, a 1/4 wave ground plane is needed for optimum results. To receive optimum results from Washington, DC Police, a beam or a 1/4 wave antenna and a preamp is needed from my location.

If I have failed to cover this subject as adequately as you would like, do not hesitate to contact me. I would still appreciate anything you have to offer.

+++++TIDBITS.....Our readers contribute their valuable information :

David Wilson
1473 Waterloo Road reports:
Suffield, OH 44260

Ohio Department of Transportation
47.22 47.30 47.34 47.40

Massachusetts State Roads
47.28 47.36

South Carolina State Roads
47.22 47.34

George Matyaszek
Chicago, IL reports:

Armoured Express Corporation
463.5

Bankers Dispatch Corporation
461.275

Central Watchmans Service
460.90

Burns International Services, Inc.
461.65

ADT Alarms
460.95

Industrial Patrol Service
463.325

Elston Investigators
461.15

Brinks Armoured Trucks
159.495

Midwest Security Agency
151.895

VH May
461.70

Williard Bureau of Investigation
461.45

Ketsy-Kane Alarm Company
460.925

Marand Detective Agency
461.725

George continued:
Security Secret Service
154.54

Star Detective and Security
461.075

Craig Kenneth Willard
G-33 Montgomery Court reports:
Narbeth, PA 19072

Main Line Ambulance Bala-Cynwyd
464.15

Philadelphia Electric Co.
37.64-37.68-37.74-37.80-47.90
48.00-

Gillis & Moore Fuel & Heating
47.56

Philadelphia Suburban Water Co.
48.10

Narbeth Taxicab Company
152.30 - 157.56 KGH 204

Newtown Marple Taxicab Company
152.33 - 157.59 KGD 947

Ardmore Taxicab Company
152.30 - 157.56 KEV 965

Patrick T. Gallagher & Sons
152.33 - 157.59 KAU 994
Bala-Cynwyd

Bell Taxicab Company
152.33 - 157.59 KGA 450
Chester

Pendel Cab Company
152.36 - 157.62 TKL 466
Lansdowne



VHF UTILITY DX

Pat Dyer
5315 Silvertip Drive
San Antonio, TX 78228
Deadline: 5th of month

DECEMBER 1978

Randall B. Clark, Rte 5 Dutch Ridge, Parkersburg, WV 26101 EDT used

10-17: 1156-1328, BBC-1 41.50 Divis, Northern Ireland (TV audio)
20: 1144-1222, same; also again on Oct 21.
(Oct 17 & 19 MUF's well above 47 MHz)

Neil Dickerson, 426 State Street, Sharptown, MD 21861 PRO-1 new under.

9-23:	10-8:
1200 KPC48 33.98 Fairfield, CA-f	1330 KMA706 33.90
KPC36 " Belmont, ""	1400 KSV810 33.08 Portland, OR-ho
1201 WCD269 " Downey, ""	1402 KOB683 33.98 Klamath Falls, "-f
WSK76 " Rancho Cordova, ""	1411 KAW575 " " " "
1203 KPC92 " L.A., ""	1426 KUY334 " Sprague River, ""
WJY62 " San Jose, ""	1430 KPD671 " Seattle, WA-"
KMA706 33.82 L.A., ""	1436 KRB520 39.48 San Dumas, CA-p
1205 KOT54 33.98 Sacramento, ""	1439 KTS672 " Malibu, ""
1216 KME585 33.70 L.A., ""	1440 KRB521 " 1441 KFN501
1230 KFN501 37.18 Salem, OR-1g	1500 KDN587 37.98 San Diego, "-1g
1242 KMA628 39.08 L.A., CA-p	1504 KMB628 39.60 L.A., "-p
1300 KMF619 33.78 Beverly Hills, "-f	KRB523
10-1:	1507 KMP966 39.94 Meadow Lakes, ""
1200 KPC98 33.98 Modesto, CA-f	1510 KMD934 42.34 El Centro, "-sp
WCB515 " Kings Beach, ""	KMB520 " S.L. Obispo, ""
WSK76, KOT54, 1201, KPC92	1513 KMB524 " S. Barbara, ""
1202 KOT77 33.98 Redding, CA-f	1515 KMH724 " Lancaster, ""
1204 KMA706 33.70	1517 KMA628 39.18
1215 KSU412 33.76 Strawberry, ""	1520 KSL862 39.52 Marin, "-p
10-3:	1521 KML503 39.04 Chino, ""
1200 KME585 33.90, KPC92; 1204 KOT54	1525 KRB522 39.14 L.A., ""
10-7:	1530 WGW84
1000 33.98 Russian ?	10-15:
1028 45.02 French	1830 KMD908 42.88 Santa Rosa, CA-p
1030 KKG229 37.10 Camden, AR-p	KOB877 " Tillamook, OR-"
KTS667 " Jonesboro, ""	KRB411 " L.A., CA-"
1034 39.10 Spanish	1831 KOA745 " Portland, OR-"
1100 KOT77, WSK76; 1102 KMA706 33.82	KMA501 42.56 Stockton, CA-sp
1115 KET216 39.10 Norco, CA-p	1832 KMD952 42.34 S. Bernardino, ""
1116 KRB523 39.24 Temple City, ""	1833 KME357 " San Diego, ""
1120 KRB521 39.48 Altadena, ""	KMD934
1124 KRB523 " KDC275 " Ventura, ""	1835 KMD494 42.12 Redding, ""
1127 KMA629 39.32 Lancaster, ""	KME383 " Scotia, ""
1130 44.74 Arabic ?	1840 KMH700 42.34 San Jose, ""
1136 KME585 33.70	1842 KMB521 " Ventura, ""
1200 KPB77 33.98 Ferris, CA-f	1843 KOB308 42.94 Klamath Fls, OR-p
KFC92 " San Bernardino, ""	42.86 " " " "
KOT56 " Camino, ""	1844 KOB311 42.88 Burns, ""
KFC42 " Sacramento, ""	1845 KME524, 1846 KMH724
WCA934 " "	1847 KMJ214 42.34 Laguna Beach, CA-sp
1201 KFC48	1848 many CHP mobiles 45.02 L.A. ar
1204 KMG112 33.66 " " "	1852 KMB440 42.08 Redwood City, ""
1210 KS411 33.76 San Bernardino, ""	KLE850 42.34 Richmond, ""
1230 WGW84 33.98 San Luis Obispo, ""	1853 KCY564 42.44 Petaluma, ""
1730 KRB523 39.82, KRB521 39.82	1854 KMK518 42.34 L.A., " "
1735 KRB521 39.72	" " " "
10-8:	1855 KMD950 42.34 Fresno, ""
1300 KPC92, 1302 KPB77	KME640 42.12 Downsville, ""
1305 KEB615 33.70 Glendale, CA-f	1856 KMC985 42.46 Modesto, ""
1309 KPC98, 1326 KME585 33.70	

Dickerson cont.

10-15:

1857 KMC926 42.12 Sonora, CA-sp
 1858 KMH458 " Redlands, " "
 KMC983 42.34 Merced, " "
 1900 KPAL09 " Bakersfield, " "
 KMB318 " Willits, " "
 KMB922 " Truckee, " "
 1901 KOG382 39.82 Laurel, MT-p
 1902 KOG982 " Twin Falls, ID-"
 1907 KOG986 " Gooding, " "
 KOH637 " Billings, MT-"
 1909 KAX234 " Pocatello, ID-"
 1910 KDC310 " Goose Hump, " "
 1911 KEC654 " Galen, MT-"
 1913 KOE521 42.88 S. Lake City, UT-"
 1915 KOB344 " Toccoa, " "
 KOA983 42.94 Marysville, " "
 1916 KOG904 " Monticello, " "
 1917 KOF249 42.82 Cheyenne, WY-"
 KOF265 " Casper, " "
 1918 KOF342 " Rock Springs, " "
 1920 KOF244 " Riverton, " "
 1921 KOF245 " Gillette, " "
 1922 KRB521 39.28/48/52/60/72/82
 KRB523 39.48/52/60/82
 too many in 33-39 to mess with
 1930 KDE676 42.34 Downieville, CA-sp
 1934 KVM210 45.08 Hanna, WY-p

10-15:

1939 KOF936 42.94 Carson City, NV-p
 1940 KOH704 " Las Vegas, " "
 1942 KOH624 42.88 Reno, " "
 10-16:
 1400 KRM805 39.98 Peoria, AZ-p
 KSN282 39.50 Wikieup, " "
 1410 KOF577 39.82 Glendive, MT-"
 1412 KOH637 " "
 1415 KOB246 " Spokane, WA-"
 1417 KOI664 39.50 Billings, MT-"
 1418 KSS279 39.82 Missoula, " "
 1420 KOM708 " Poplar, " "
 1530 KOA766 " Superior, " "
 KOA824 " Big Mountain, " "
 KOA986 " Stanford, " "
 1531 KOA722 " Missoula, " "
 1532 KOB568 " Polson, " "
 1534 KOH218 " Caldwell, ID-"
 1535 KOG982 " Twin Falls, " "
 1536 KOA216 " Great Falls, MT-"
 1542 KOH855 " Ryegate, " "
 1545 KYT214 " Cut Bank, " "
 1547 KOB482 " Big Timber, " "
 1548 KCG969 " Jerome, ID-"
 1550 KWW833 " Payette, " "
 KGW666 " Kuna, " -f
 1600 KOA999 " Kalispell, MT-p

f-fire, ho-hospital, lg-local government, p-police, sp-state police

A.H. Ellis, 19McClure Avenue, Brantford, ONT, Canada N3R 4L7 GMT

10-23: BBC-1 41.50 England (TV audio)

25: 1900-2200, many unID's CA police on 39 MHz

For those who want to (or have) send tapes to me - the best route is a cassette (mono). I do have a 10-yr old reel-to-reel unit, but it's limited to maximum 3/4-inch reels (2 track mono) and 1-7/8 or 3-3/4 ips. It's better if you also send a written summary of the tape (if that is going to be your report to the column) since I don't always have time to listen and jot it all down. (I've my own logging tapes to go thru.) And, as I like to keep such things, please send a copy, not your original (unless you don't want it back). - PJD

WAL0UB (NH) - 10-21: 1300z BBC 48.25 (audio) very strong

22: 1200-1400z same, weak

Oct 30 0000-0130z 50-MHz Gumm (KG6JIN) to Alaska (Shemya) and Hawaii; Japan to Hawaii and Argentina; SF Bay area receiving 51.75 audio from Brisbane, Australia.

50-MHz beacon tests run from SF Bay area have provided reception in Tahiti and Cook Island at times (via TE) as late as 0900z.

Gibraltar heard/worked in October by Brazil and Argentina on 6-m.

Remember that BBC Ch 1 video is at 45.00 and that continental Europe (Ch E2) video is on 48.25 (same as BBC Ch 2 audio); Russia and its associates have video on 49.75. BBC and ORTF do have offset frequencies on their channels that can be noticed with a selective receiver. I'm told BBC-1 break for regional news at 1745z so there's a chance to possibly figure out which transmitter you're getting.

Glenn Hauser, c/o WUOT, Univ. of Tenn., 232 C&E Bldg., Knoxville, TN
37916 HQ-160, FRG-7, Astronaut-6; random wire antennas; GMT used

9-30:	10-31:
1330 30.300 Antigua (DW)	1328 30.140 U.K.
10-15:	1329 30.260 USSR (R-Moscow 2nd ha.)
1406 30.780 U.K. (BBC 2nd harmonic)	30.300 Antigua
1407 30.670 Spain (REX " ")	30.390 Asc.Is.(VOA)
1416 30.360 U.K. (BBC " ")	1330 30.474 Colombia (5th harmonic)
1419 30.270 USSR (jammer, "UM" ID)	1339 30.290 Recife, Brazil (2nd ")
1420 30.140 U.K. (BBC 2nd harmonic)	1346 30.360 U.K.
10-11:	1600 41.250 France (TV audio)
1325 30.328 Colombia (R.Super, 5th")	41.500 U.K. (BBC-1, TV audio)
1328 30.210 Ascension Is. (BBC 2nd")	2150 30.520 Asc.Is. (BBC 2nd harm.)

Bob Billings, WB2RLK/VEI, RR 1, Bridgewater, NS, Canada B4V 2V9 TR-6 & 11-element beam for 6-m; GMT

10-30: 1345-1430 50.0 to 50.250 full of European TV video buzz
31: 1822-1832 California (believed to be the first transcontinental
50-MHz F2 opening since October 1970)
11-1: 1351, PZ1AE (Surinam), FY7AS (Fr. Guiana)
1450, K4ERO/HG1 (Ecuador), TI2NA (Costa Rica)
1830, KZ5NW (Canal Zone)
2: much as 11-1 only weaker; also HK3RJ (Colombia)

other 50-MHz news briefs -- rumors of California to Japan and Florida
to SW Africa (Nov 1); Canal Zone to NV & AZ; VE1ASJ (NB) hrd PY1RO
(Brazil); W4EXN (Maine) hrd Chile; W5KHT (OK) hrd PY2OSS (Brazil) and
suspects some 49-MHz Africans.

Now, my loggings. Hallcrafters SX-62, Hammarlund SP-600-JX-10 with 2
30' long-wires at 12' (nw-se, ne-sw runs); Swan 250 with Ameco duvistor
preamplifier and 5-el Cushcraft horizontal Yagi at 23' for 49.5+ stuff;
GMT used, all F2 unless noted (bs=backscatter) * Es; daily peak MUF's
noted; new underlined

10-5:	10-7:
2255 KJU806 35.58 Oxnard, CA-tp*	2201 KDR298 33.86 Somerville, MA-f
10-6:	2204 KCB404 33.82 Ashburnham, " "
1400 KCE816 33.58 Southington, CT-f	2205 KCA633 33.90 Middleboro, " "
KBZ283 33.90 Orford, NH-rf	2216 KDC288 " Hollis, NH-"
1415 US 35' n.e.	2217 KCD346 33.80 Tolland, CT-"
2145 KCD497 33.64 Buzzards Bay, MA-f	2218 KDT357 33.96 E. Lyme, CT-"
KCE537 33.70 Sterling, " "	2219 KCB217 " Niantic, " "
2154 KCF582 " Thomaston, ME-"	KCG491 33.60 Wallingford, " "
2155 KCH585 " Rutland, MA-"	2224 KCD492 33.86 Dennis, MA-"
2157 KCV582 33.54 Franklin, " "	2225 KCG249 33.70 Southbury, CT-vf
2159 KCD511 33.70 Camden, ME-"	2226 RTJ537 33.86 Fairview, NJ-f
2200 KCD454 33.9- Hyannis, MA-"	2229 KCF954 " Mahwah, " "
2209 -- 35.38 LA, CA-mp *	2231 KRJ839 33.96 Harrison, NY-cf
2307 LU1EIA 50.035 BA, Argentina-a	2232 KEM734 33.94 Canton, CT-f
2327 LU2DEK 50.1- " " "	2233 KCF310 33.66 Chelmsford, MA-"
2328 LU1DAU " " " "	2234 KCD411 33.94 Unionville, CT-"
10-7:	2235 KCF590 33.86 Redding, " -cf
0004 LU9EHR 50.1- BA, Argentina-a	2236 KCF596 " Brookfield, " "
0200 LU1DAU 50.1- " " " (TE)	2248 KEJ451 33.78 Toms River, NJ-"
1730 KDA383 33.90 Milford, NH-f	2300 KCF314 33.66 Tyngsborough, MA-f
2007 49.58	2304 KCF364 33.78 Brookline, " "
2146 KCF617 33.70 Middlebury, CT-cf	2305 KCC284 33.-- Tolland, CT-"
2158 KCV582 " " "	2311 KCD556 33.66 Orleans, MA-"
KCD820 " W Bridgewater, MA-f	10-8:
2159 KCH857 33.78 Winchendon, " "	1445 KP0825 33.70 Cheshire, CT-f
2201 KCD454	1518 KCE816

Dyer cont.

10-8:				10-10:			
1542	KCF246	33.90	Marshfield, MA-f	2130	49.58	2200	KCD511, 2236 KEM734
1546	KCD845	33.70	Brewster, " "	2237	KCD336	33.70	Lincolnton, ME-vf
1559	KCD497			2245	KDB386	33.66	Pepperell, MA-f
	KCD244	"	Falmouth, " "	2249	KCE721	33.70	Litchfield, CT-"
2040	low-35	US		2250	KCC705	"	Holden, MA-"
2041	KCA585	33.90	Plymouth, " "	2259	KEJ451, KDC288		
2200	49.58, KCD454			2300	KR0266	33.78	Forked R., NJ-"
2201	KDA381	33.90	Wilton, NH-"	2305	KCF367	"	Brookline, MA-"
	KDR298				KCF366	"	" " " "
	KCD575	33.70	Cheshire, CT-"		KCF368	"	" " " "
2252	KBH354	33.90	Rockville Center, NY-f		KCF369	"	" " " "
2301	KCD411			2325	KFS	34.05	Palo Alto, CA-hac
2302	KCC748	33.94	Windsor, CT-"	2333	KUA288	35.22	Portland, OR-tp
10-9:				2334	KLP527		
2058	KOP303	35.62	Langley, WA-mp	2355	KOP303	35.62, 2357	KOP303 35.46
2059	"	35.46	" " "	10-11:			
2100	KDA383, KCD845			0001	KOB683	33.98	Klamath Falls, OR-f
	KCB999	33.78	Burlington, VT-f	0015	KOK418		
2104	45.25			0019	--	35.26	Salem, OR-mp
2117	KCI233	33.66	Watertown, CT-"	0025	Bend, 0030	KOA796	
2125	KEB909	33.78	Verona, NJ-"	1557	KCI315	33.64	Beacon Hills, CT-f
2136	KEE675	33.82	Middlesex, " "	1559	KCD492, KB2283;	1600	KDA381
2149	KCA974	33.90	Plympton, MA-"	1600	KCE288	33.76	W. Tisbury, MA-of
2150	KCA351	"	Duxbury, " "	1932	--	35.26	Seattle, WA-mp
2151	KCE715	"	Whitman, " "	1945	KOP303	35.46	
	KCC350	"	E Bridgewater, " "	2152	KCE584	33.90	Poquonock Br., CT-f
2153	KCA585, 2155	KCE585		2155	KCE869	33.70	Prospect, " - vf
2156	KCF246			2156	KCH585, KCV582		
2157	KCO382	33.94	Warren, NJ-vf	2159	KVA379	33.84	W. Albany, NY-fd
2200	KB2283				KIB278	33.78	Plymouth, NH-f
	KEF828	33.74	Vineland, " -f	2201	KCB457	33.86	Newtown, CT-"
2205	KEG253	33.82	Forde, " "	2204	KCB404		
	KCB404			2210	KCD246	33.54	S. Yarmouth, MA-"
	KCC672	33.94	S. Windsor, CT-"		KDX459	33.54	Medway, " "
2214	KCO266	35.58	Springfield, MA-vp	2211	KCE816		
2223	KEA860	35.22	NY, NY-tp	2215	KCG493	33.94	Simsbury, CT-"
2226	KCI299	"	New Haven, CT-tp	2216	KCH794	33.54	Wrantham, MA-"
2252	KOA796	35.58	Portland, OR-"	2217	KDC288		
2259	KED736	33.86	Fair Lawn, NJ-f	2219	KOD346	33.90	
2300	KEM734			2220	KXV489	33.94	Granby, CT-"
	KRK986	33.90	Noank, CT-"	2221	KCC748, 2225	49.58	
2301	KCB217	"		2302	KCC825	33.70	Kennebunk, ME-"
2305	KZR568	"	Alton, NH-rf	2330	KOP303	35.62, 2353	KUA288
	KJR227	"	Belmont, " "	10-12:			
2310	KJP374	"	Gilmanston, " "	0001	Bend, 0051	KRW461, 0128	KLP527
2312	KOK418	35.46	(west) -mp	1540	KOP303	35.46	
2314	KLF527	35.22	Honolulu, HI-tp	1600	KCB979	33.90	Norwich, CT-f
2334	--	35.26	Eugene, OR-mp	1601	KFS		
2340	35.91	Russian		1605	--	35.26	Portland, OR-mp
2350	KRW461	33.04	Walnut Ck, CA-ho	1935	44.30, 2059	KDA381, 2100	KDA383
10-9:				2205	KCB404, 2214	KDC288	
1525	KCA346	37.54	Ellsworth, ME-he	2221	KXV489, 2229	KCI233	
1530	KCI299, 1538	KOK418		2230	KCE669	33.70	New Milford, CT-f
1540	Eugene				KCB454	"	Morris, " -vf
1549	KCH209	33.90	Waterford, CT-f		KBP954		
1551	--	35.26	Bend, OR-mp	2234	KEG722	33.86	Ramsey, NJ-f
1552	KCA585			2235	KCE317	33.70	Canaan, CT-"
1559	KCA410	33.90	Wareham, MA-f	2236	KCF596, 2240	KEM734	
1602	WHB99	33.66	St. Helena, CA-sf	2245	KOD346	33.80, 2247	KDB386
	KPC48	"	Fairfield, " "	2252	KCK671	33.90	L. George, NY-of
				2255	KCF264	33.66	Truro, MA-f

Dyer cont.

10-12:

2259 KCF367, 366, 368, 369

2300 KCE721

2301 KCE526 33.70 Bethlehem, CT-vf

2302 KEG663 33.82 Metuchen, NJ-f

2305 KCH954 33.70 N Brantford, CT-w

2316 Bend

2319 KCD384 33.94 Manchester, " "

2320 KCG711 33.70 Hamden, " "

2322 KCE330 " Milford, " "

2324 KSV545 33.94 Windsor, " "

KSV611

2346 Salem, 2351 ERW461

10-13:

0040 38.90 Russian, 1920 44.85

2211 KCD246, 2212 KDX459

2212 KCR901 33.98 Rochester, NH-f

2310 KOP303 35.46

2338 KUA288, Portland, KOK418

10-14:

0037 KLF527, 1605 KOP303 35.46

1613 Eugene, 1615 KPS 34.36

1700 KDC288

1709 KSV810 33.08 Portland, OR-ho

1712 mid-38 Canada, 1905 KOA796

2200 KDA383, 2201 KCD454

2202 KCB557, 2205 KCA633

2210 42.02, 2215 KUA288

2217 KCG493

10-15:

1507 KCI299, 1558 KOP303 35.62

1610 KOP303 35.46, 1857 40.62

2159 KEE227 33.94 N. Plainfield, NJ-f

KEE873 33.86 Salem, " "

KEE869 " Upper Saddle R., " "

2210 KOB238 37.48 Seattle, WA-light

2215 42.45 bs, 2237 37.02 Alberta

2239 KCA346, 38.30 Russian

10-16:

0017 KUA288, 0019 KLF527, Eugene

0040 38.42 Canada, 1345 37.41 Russ.

1351 BBC-1 41.50 England (TV aud.)

1420 ORTF 41.25 France (")

1528 KCC405 37.54 Bangor, ME-be

1530 KOA796, 1532 KCA695

1540 KOK418, 1541 KOB238

1558 KDA381, 1559 KDC288

1600 KBZ283, 1605 low-38 Canada

1625 KOP303 35.46, 1847 49.58

2219 KFN501 37.18 Salem, OR-cg

2221 KXVL89, 2234 KUA288

2250 KCB857

10-17:

1345 38.09 Russian, 1357 ORTF

1455 BBC-1, 1527 45.13

1535 KUA288, KOP303 35.46

1619 mid-37 US, 1740 low-38 Canada

2235 mid-37 Russian, 2258 KOB238

2342 KOK418

10-18:

0000 38+ Russian, 0030 KOA796

1445 HK3RJ 50.125 Bogota, Col.-a

HUF 51+

10-18:

1450 WB81WI/4 50.1- SC-a(bs)

1500 WZAXU 50.1- NJ-a (bs)

2300 KOP303 35.46

10-19:

1930 US 37'a, 2027 KOA796

2150 49.58

10-20:

1400 mid-37 US, 1447 BBC-1

1453 ORTF, 1545 41.00 Russian

2028 KOP303 35.46, 2029 49.81

10-21:

1450 ORTF, 1517 49.78, 1600 BBC-1

1715 R.F.I. 43.17 Paris-ha

1727 KEA860, 1917 KUA288

10-22:

1450 ORTF, 1520 mid-38 Canada

1534 KCI299, KUA288; 1536 KOA796

1537 - 35.22 Wilkes-Barre, PA-vp

1555 hi-34 Russian, 1559 KEB873

1600 KCH450 33.98 Allentown, PA-cf

1745 49.58

1845 -- 35.38 Modesto, CA-mp

1925 hi-37 US, 1955 KOP303 35.46

10-23:

1345 ORTF, 1350 hi-34 Russian

1635 R.F.I. 43.17, BBC-1

1815 49.58, 39's US

1930 hi-41 Canada

2055 -- 35.58 Scranton, PA-vp

2138 KUA288, 2145 KCC266

2151 KOP303 35.46

2158 KCE287 33.94 Rocky Hill, CT-f

2200 KCD454

2201 KCC522 33.78 Georgetown, DE-sf

2203 KCD586 33.94 Wethersfield, CT-f

2206 KDR384 33.86 Garfield, NJ-

KCC672

10-24:

1410 hi-34 Russian, 1437 KEA860

1450 ORTF, 1555 BBC-1

1705 hi-37 US, 1710 hi-41 Canada

1741 Scranton, 1900 KOP303 35.46

1903 KCA305 37.54 Eddington, ME-u

1905 49.81, 2025 KOA796,

2300 mid-37 Russian, 2320 KOB238

2329 KPS 34.05

10-25:

0715 Low-38 Russian

1535 ORTF, BBC-1; 1655 43's Spanish

1705 mid-37 US, 1744 KCC405

1855 KUA288, 1857 KCI299

1913 KOP303 35.62

2201 KJ2993 33.90 Duxbury, MA-f

2203 KCE681 33.70 Rockland, ME-"

2204 KCB844 " Greenfield, MA-"

2205 KCB404, 2206 KCF246

2207 KCC672, 2208 KDA383

2210 KCB816, 2220 mid-38 Canada

2230 KCB845

2244 KCD250 33.66 Woodacre, CA-sf

Dyer cont.

10-26:

1500 ORTF, 1558 KUA288

1601 KC9964 33.76 Terryville, CT-f

1603 KED69 33.94 Livermore, CA-sf

1605 KJH354 33.90 Seattle, WA-f

39.96 Russian

1609 KOP303 35.46, 1620 BBC-1

1831 KCA322 37.54 Millinocket, ME-hs

mid-39 Canada

1835 KOC266

1845 -- 35.38 Sacramento, CA-mp

hi-37 US west

1846 49.58, 1849 KEA860

2020 KOA796

2159 KEG776 33.82 Edison, NJ-f

2200 KCD454

2201 KCA695 33.78 Manchester, NH-"

KEE869, 2203 KCP590

2204 KED485 33.82 Woodbridge, NJ-"

2205 KOC672, 2310 hi-37 Russian

10-27:

1118 KHERO/HC1 50.1- Quito, Ecuador-a

1505 50-MHz bs to OK et al.

MUF 50.325

1830 39's US, 1840 Scranton

10-28:

1520 KHERO/HC1, 1800 hi-37 US

10-29:

1330 KAA893 35.22 St. Louis, MO-tp *

mid-40's Spanish

1510 US 35's

10-30:

0007 KLF527

1531 KCB360 33.70 Leominster, MA-f

1532 KCH677 " Fitchburg, " "

KAX916 " Lunenburg, " "

1533 KCD353 " Lancaster, " "

KCD658 " Westminister, " "

1705 49.58

1802 -- 35.46 Oakland, CA-mp

1804 KEA860, KOP303 35.46

1840 Scranton, KOK418

1841 KCI299

2021 KCF805 39.62 Dover-Foxcroft, ME/-cp

2043 Wilkes-Barre, 2255 KCE869

2257 KCD427 33.-- Rockland, MA-f

2258 KCY582

2259 KCD574 33.70 Eastham, " "

KCA695, KCR457

2301 KCD244

2303 KED411 33.86 Cliffside Park, NJ-f

2310 KCD246, 2314 KDC288

2320 WCC 33.86 S. Chatham, MA-hac

10-31:

1528 KCA305, 1531 KCA346

1550 BBC-1 41.50 Divis, N. Ireland

1730 HI-43's US, 1845 44.5 Canada

1900 KEA860

1949 KGA807 35.58 Baltimore, MD-tp

2025 LUBAHW 50.1- BA, Argentina-a

11-1:

1124 KEA860

1430 FY7AS 50.1- Fr. Guiana-a

WB8IWI/4 (bs)

1450 WA80GS 50.1- OH-a (bs)

WA5HMK 50.1- TX-a (bs)

1500 KHERO/HC1

1655 BBC-1, 43.58 US

1750 low-44 Canada

2236 KUA288, 2246 KCF246

2248 KDJ537 33.54 Dearfield, MA-f

2252 KCA328 33.50 Mansfield, " "

2255 KCH585

2258 KCB348 33.90 Ft. Fairfield, ME-"

2259 KCA627 33.50 Easton, MA-"

KCG574 " S. Easton, " "

11-2:

1100 KCC705, 1401 KCH585

1401 KCB239 33.70 W. Boylston, MA-f

KCD658

KAV492 " Winchendon, " "

1440 49.975 (south)

1448 WASUUD 50.1- LA-a (bs)

1520 ORTF, 1528 BBC-1

1544 R.F.I. 43.17, 1630 Wil.-Barre

1630 low-43 Canada, 1707 Scranton

1740 39's Mass, 1757 KOA796

1801 KEA860

2040 KH6NS 50.1- Oahu, HI-a

KH6IAA 50.1- Hilo, HI-a

2050 KH6BQI 50.1- Oahu, HI-a

2230 KCA695, 2232 KCB238

2235 KCR275 33.70 Friendship, ME-f

KDL860 " Rockport, " "

2251 KCF582 " Thomaston, " "

2256 KSV810, 2300 KCD511

a-amateur; cg-county government;

f-fire (c-county, d-district,

r-region, s-state,

v-volunteer)

ha-harmonic (hac-c.w. ha)

he-hydroelectric; ho-hospital

mp-mobile phone

p-police (cp-sheriff)

tp-tone pager; u-utility;

vp-voice pager

late news - G3CSE (England) reports

heard 50-MHz signals from VE1 etc.
on Nov 1 & 2 et al. near 1500 GMT.So, the North Atlantic path is get-
ting well into the VHF F2 MUF's
this fall.

73, Pat

WA5IYX

EASTERN TV-DX

Bill Thompson
1907 Seneca Street
Buffalo, NY 14210

December 1978

Deadline: 5th

Several very good-to-excellent tropo sessions in October were noted by some of this month's reporters. Among the most interesting were the coastal ducts observed by Roy Barstow and Jim Alexander. Roy reports good conditions into Virginia on October 13th from his Massachusetts QTH, and noted another super period beginning on the 21st and ending with an 850 mile catch of WBA-14 SC on the morning of the 23rd.

Midwestern tropo development was influenced by an unusually mild October weather pattern caused by the major west-to-east jetstream, which has stayed a bit further north than expected. As of early November, wintry weather appears to be on its way, so the generally "up" tropo conditions in more northerly locations won't last much longer.

Some good out-of-season Es activity has taken place in October, with MUF noted into FM around midnight of the 19th. Another good date may have been October 28th in some areas.

Peter Sawatzky R.R. #4 Guelph, Ontario N1H 6J1 (EDT/EST after 10-28)

July		21 Tr 0650		WAND-17 IL		22 Tr 1129		WICD-15 IL		475	
19 Tr	2320	WTAP-15 WV	295		Decatur	515		1132	WSJV-28 IN		
22	0159	WNEP-16 PA	280	0651	WRT-19 AL				Blkchart		320
25	2301	WFFL-55 IN			Huntsville	695		1142	KDNL-30 MO		615
		Ft Wayne	300	1728	WSVU-47 VA			1200	WMT-34 IN		
	2316	WUJG-33 IN	300		Norton	475			South Bend		315
	2324	WANE-15 IN	300	1858	WUUC-44 OH	250		1930	WUUC-44 OH		250
	2344	WBAK-38 IN	460	2000	W41AA-41 JV			1959	WSVN-47 VA		475
26	0022	WUHQ-41 MI	250		Wheeling			2030	WTAP-15 WV		295
	0034	WF-A-21 IN			(WVU-24 x1tr)			2108	WNSC-30 SC		
		Ft Wayne	300	2058	WKTR-38 KY				Rock Hill		600
	0118	WTFB-14 IN			Morehead	405		2158	WDRB-41 KY		
		Evansville	540	2303	WKHA-35 KY				Louisville		465
	0138	WANE-15 IN	300		Hazard			23	2132	WTAP-15 KY	295
August				2307	WHIZ-18 OH	260		2136	WUUC-38 KY	405	
11 Tr	0002	WOSU-34 OH	275	2323	WKYH-57 KY	460		2229	WUUC-44 OH	250	
18	2349	WVIA-41 VT		2329	WMTU-33 JV			2312	WHIZ-18 OH	260	
		Windsor	390		Huntington	370		2323	W41AA-41 WV		
19	0027	WUTR-20 NY	260	2332	WKEF-22 OH			24	0001	WOSU-34 OH	275
	0028	WCDC-19 MA			Dayton	330		0742	WVFB-31 MD		
		N Adams	365	2339	WZTV-17 TN				Hagerstown		300
		"Tropo on FM to ME			Nashville	625		0745	WVFB-67 MD		
		(MBA 90.1) in that		2357	WPBO-42 OH	445			Baltimore		345
		opening!!"		0100	WICS-20 IL	545		0756	WBFF-45 MD	345	
20	2230	WAAV-31 AL		0132	WLKY-32 KY	465		0802	WAFB-22 MD		
		Huntsville	695	0137	WMBD-31 IL	515			Annapolis		370
	2301	WOSU-34 OH	275	0143	WKEF-22 OH	330		September			
	2318	WYUR-48 AL		0203	WNDU-16 IN	315		6 Tr	0005	WCDC-19 MA	365
		Huntsville	695	0206	WLEX-18 KY	430		0735	CHRX-12 ON		
	2336	WTVK-26 TN		0209	WDCA-20 DC				Peterborough		110
		Knoxville	560		Washington	360		0743	WNDU-16 IN		315
	2350	WKYH-57 KY		0213	WERT-25 IN			0750	WSJV-28 IN		320
		Hazard	460		Evansville	540		12	0025	WNEP-16 PA	280
21	0054	WOWL-15 AL		0304	WZPV-17 TN	625		October			
		Florence	720	0308	WRAU-19 IL	515		31 Tr	2228	WCFC-38 IL	375
	0056	WFIQ-36 AL		0313	WAND-17 IL	515			WCAE-50 IN		
		Florence	720	0316	WVIA-44 PA	270			St John		395
	0115	WKPT-19 TN		0328	WAPT-16 MS			November			
		Kingsport	500		Jackson	945		1 Tr	2159	WCFC-38 IL	375
	0118	KDNL-30 MO	615		"snowfree!--my most	</					

"My machine caught an Es opening in the wee hours of October 19 up to 90.1 KHz at Dallas TX. Definitely not MS, as it produced quite a bit of tape. Wonder if anyone else caught this unusual opening?" Still hoping for another superopening with the warm November wx we're having!" Report above only includes 250+ mile DX.

Karl Porth 1406 Schneider		SIU	Carbondale, Illinois 62901	(CDT)
August		20 Tr	2150 WKON-52 KY 240	22 Tr 1723 WHAS-11 KY 180
18 Tr	2229 WZTV-17 TN 175		2153 HKPT-19 TN 370	1730 WGET-48 OH 265
19	0032 WKIX-19 OH 260		2155 WSBT-22 IN 300	1735 WCVN-54 KY 270
	0042 WKEP-22 OH 300		2159 WJWU-24 WV 510	1900 WAPB-22 MD
	0044 WLKY-32 KY 180		2200 WVIA-44 PA	Annapolis 685
	0048 WKRC-12 OH 300		Scranton 765	1916 WLFT-5 OH 265
	0058 WHBQ-13 TN 190		2209 WDAU-22 PA	1936 WBFF-45 MD
	0159 WTVF-5 TN 175		Scranton 765	Baltimore 685
	1800 WKZZ-23 KY 180		2214 WTVQ-62 KY 255	1949 WMPB-67 MD
	1812 WEGB-53 KY 155		2218 WBRB-28 PA	Baltimore 685
	1822 WDRB-41 KY 180		Wiles-Barre 760	2000 WCPO-9 OH 265
	1824 WKPC-15 KY 180		2221 WMEP-16 PA	2259 KXIN-36 IA 390
	1830 WKLU-68 KY 180		Scranton 765	2335 WLJT-11 TN 135
20	0148 WSM-4 TN 175		2228 WSKG-46 NY	2339 WENO-10 TN 175
	0158 WBRK-13 KY 155		Birmingham 770	2341 WBBJ-7 TN 130
	0300 WNGR-2 TN? T	21	0030 WDRF-12 TN 275	0007 KDMA-41 MO
	1400 WDCN-8 TN 175		0036 WAPT-13 AL 325	Kansas City 295
	1500 WMAV-18 MS 220		0042 WRCB-3 TN? T	0052 KCBJ-17 MO
	1600 WTVF-47 IL 190		0927 WTV-9 MS 250	Columbia 185
	1630 WKYC-27 KY 255		1459 WMUL-33 WV 370	0055 W49AA-49 IL 135
	1739 WWSO-29 KY 250		1501 WCTB-22 TN	0059 KOMU-8 MO
	1915 WKMR-38 KY 310		Cookeville 225	Columbia 185
	1925 WKLB-46 KY 255		1845 WFYI-20 IN 200	September
	1930 WLKY-18 KY 255		1900 WFBO-42 OH 340	4 Tr 2300 WCTA-3 IL 205
	2000 WAAV-31 AL 240		1910 WOSU-34 OH 370	2307 KYIN-24 IA
	2028 WCPT-55 TN 255		2130 WUAB-43 OH 440	Mason City 400
	2056 WBMG-42 AL 320		2140 WKAS-25 KY 355	2310 KWHI-7 IA
	2057 WENT-19 AL 240		2144 WDHO-24 OH? T	Waterloo 370
	2058 WSVN-47 VA 375		2150 WJKN-8 OH? T	2330 WILL-12 IL 205
	WTUR-48 AL 255		2200 WAKR-23 OH	2338 WRAU-19 IL 190
	2059 WPCI-45 TN 275		Akron 475	2346 WEEK-25 IL 190
	2100 WTVF-26 TN 325		2204 WMBD-31 IL 190	5 0123 WMTV-4 IN 185
	2110 WRIF-61 TN 275		2215 WNEO-45 OH	9 0016 WBIQ-10 AL 320
	2134 WFTQ-36 AL 205		Alliance 475	14 2200 WPTX-24 TN
	2139 WOWT-15 AL 205		2226 KDUB-40 IA 345	Memphis 190
	2142 WHIQ-25 AL 240		2229 WPGH-53 PA	23 1830 WCFT-33 AL 320
	2146 WOUU-44 OH 445		Pittsburgh 525	29 1130 WKPI-22 KY 370

"Equipment: Sony TV-115 B/W portable with 4-bay Archer UHF antenna, at about 130 feet. Living on the 14th floor here has far exceeded my expectations, almost any change in the weather will bring on good ex. I face the SE, so KY, TN, AL, etc. is in often but MO, IA, and northern IL are rare. Underlined stations represent stations logged only on the date shown, many of the others are regulars or have been received again. Carbondale log total is 137, with no Es or Ms. According to the January VUD, the two Baltimores logged here are records. Targets for fall tropo are NC, SC, GA, maybe even FL; after 8/20-21, I think just about anything is possible from this location. 73"

Robert Kramer 1409 Mae Smith		SIU	Carbondale, Illinois 62901	(CDT)
August		28 Tr	2222 W68AA-68 IL	4 Tr 0000 W3JV-28 IN 410
25 Tr	2310 K74CQ-74 MO		Champaign 175	0530 WTVF-9 MI 499
	Marceline 250		(WAND-17 xltr)	WSBT-22 IN 400
	(WDAF-4 xltr)		2224 WCAE-50 IN	WFOV-27 WI 400
	2314 K76CA-76 MO	31	0450 WKAAQ-5 IL 302	WJHO-24 OH 450
	Marceline 250		WGN-9 IL 302	WUHQ-41 MI 400
	(KOMO-5 xltr)		0458 WBBM-2 IL 302	W49AA-49 IL 150
26	0002 K56AF-56 IA	September		WGPR-62 MI 450
	Clarinda 400	1 Tr	0830 W49AA-49 IL	W3NS-44 IL 302
	(KMTV-3 xltr)		"snowfrees"	0545 WGBD-50 MI 450
	K58AB-58 IA		W3NS-44 IL 302	0553 WREX-13 II
	Clarinda 400		KDUB-40 IA 310	0558 WIFR-23 IL
	(WOWT-6 xltr)		WFOV-27 WI 400	WGH-9 IL 302
	0003 K60AF-60 IA		WIFR-23 IL	WMTV-15 WI 400
	Clarinda 400		0844 WDMB-46 IN 400	0605 WISN-12 WI 400
	(KMTV-7 xltr)		W68AA-68 IL 175	0610 W4VS-56 MI 450
	K66AL-66 IA	2	1922 W49AA-49 IL 150	W68AA-68 IL 175
	Clarinda 400		1950 WDMB-46 IN 400	0617 WFLD-32 IL 302
	(WRO-13 xltr)		WCAE-50 IN	0620 W70AQ-70 WI
27	0000 Chicago U's		W3NS-44 IL 302	FOX du Lac 475
28	2220 Chicago U's	4	0000 KDUB-40 IA 310	(WISN-12 xltr)

Robert Kramer (continued)
September

4 Tr 0620	W72AJ-72 MI Escanaba 550 (WLUC-11 xltr) W75AJ-75 MI Fon du Lac 475 (WBAV-2 xltr) W76AI-76 MI Escanaba 550 (WLUC-6 xltr)		"over local KPV3" 2025 WTV3-10 MI "over local xltr" 2025 KRIN-36 IA 500 2044 WLEP-36 MI 600 2057 WMBE-38 MI 475 WGTG-35 MI 400 2127 W66AA-68 IL 175 2150 WTHJ-4 MI 400 2214 WTCV-17 IL WRRK-13 IL 2240 WFLA-31 MI 450 WXCJ-19 MI 450 WHRM-20 MI 575 2243 K33AA-33 IA 250 W49AA-49 IL 150 "local grade" Peoria U's like locals 2300 KAAI-6 MN Austin 575 2317 WTCN-11 MN Minneapolis 650 2342 WKBT-8 MI LaCrosse 450 2352 KIIN-12 IA Iowa City 330 2358 KTTC-10 MN 575 5 0020 W33??-33 MI (WISN-12 xltr) 0030 KMSP-9 MN Minneapolis 650 0100 KMTI-3 IA Mason City 500 0108 WMT-2 IA Cedar Rapids 340 0820 WABC-28 MI 575 0830 WKIX-19 KY 300 KYIN-24 IA 500 1920 WBAU-13 MI 500 KRIN-32 IA 360 KYIN-24 IA 500 WABC-28 MI 575 2003 Chicago U's "local grade"	2030 2135 2151 2332 2342 6 1420 7 0530 0830 10 2255 23 1900 24 0030 25 0830 0830	WHMB-46 IN 400 W49AA-49 IL 150 South Bend U's WCAE-50 IN "local grade" WILR-23 IL WFFT-55 IN 450 WGFU-19 MI 524 WKBT-8 MI 450 WXOW-19 MI 450 WHBF-4 IL KWWL-7 IA 360 "local grade" WBAU-13 MI 500 KRIN-32 IA 360 WLEP-36 MI 600 WHO-13 IA 360 KDIN-11 IA Des Moines 360 Grand Rapids V's 400 Chicago V's except 11 302 WGPR-62 MI 450 WTVS-56 MI 450 WGBD-50 MI 450 WFFT-55 IN 450 WUHQ-41 MI 400 WQVC-35 MI 400 Chicago U's WHMB-46 IN 400 KRIN-32 IA 360 WHO-13 IA 360 KWWL-7 IA 360 WILL-12 IL "over local KPV3" WKOW-27 MI 400 WUHQ-41 MI 400 WFLD-32 IL 302 W49AA-49 IL 150																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
0635	W77??-77 "MI or WI"	0652	WFFL-55 IN 450	0709	WHMB-46 IL 400	0721	WLEP-36 MI Park Falls 600	0743	K59??-59 IA (WHO-13 xltr) WNIT-34 IN 400 WABC-28 MI 575 WMBE-38 MI 475 WGFU-29 MI 524 "snowtree"	0800	W33??-33 MI (WISN-12 xltr)	0823	K33AA-33 IA 300 KYIN-24 IA 500 KRIN-36 IA 500 KRIN-32 IA 360 2015 KYIN-24 IA 500 like a local WKOW-27 MI 400 WHA-21 MI 400 WLEP-23 IL Chicago U's WHWC-28 MI 575 like a local WNIT-34 IN 400 WMTI-36 MI 400 KDUB-40 IA 310 WUHQ-41 MI 400 WHMB-46 IN 400 WCAE-50 IN W3JV-28 IN 410 2025 WTVV-18 MI 400																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

October

11 Tr 2045 WQPC-38 IL 302
WSNS-44 IL 302Present log totals: 207
stns, 27 states (Tr & GW)

"Trop, after being good for the first few weeks down here, has completely disappeared. Between August 17 & September 6, I logged 97 new stations down here. Since September 6, not one newie... Overall, this was an excellent year for trop, but a poor one for skip. Going into this year, in Chicago, anything over 300 miles was rare. This season, 300 mile range was very common, with 400-500 miles and above occurring almost weekly (sometimes even more often). The trop of July 3-7 was my best period (from Chicago) ever, and the 12-15 opening wasn't far behind it. The trop down here has been unreal. Until I came down here, I had never seen 600 miles. Now I have logged over 750 miles. It's too bad I didn't bring down my camera. But the tape recordings of most of the stuff are quite interesting. All mileages are at best guesses. When I get home, I'll be working on figuring them for quite a while. The translators of August 25 & 26 are some of the unIDeds I had listed in the October VUD. My unIDed xltr on channel 33 of 9/4 could have been K33AA, picking up WISN-12 instead of KIIN-12 (which wasn't on the air that early)...73."

Michael L. Hogan 13910 Chippewa Ave. Apt. 1 Burnham, IL 60633 (312)868-4392
"There really has been little or no DX to speak of recently at this, my new location. I did notice some fairly strong tropo openings on the evening of 10/31 and again on 11/1 but no new catches were noted. I guess it will be a wait until next year for Es or any strong tropo openings. 73's"

Don Ruland 4448 68th Place Kenosha, Wisconsin 53142 (CDF)

This DX report covers the major September 3-9 tropo opening as well as a little 'surprise' yesterday morning (10-24). I missed out on the bulk of the late August activity, as was on vacation out-of-town until August 23 (apparently August 19-22 were the better days, according to Bill Draeb's last report). I knew I was missing some good tropo when I turned on TV in Holiday Inn at Richmond, KY (enroute home) on Monday night August 21 & Tuesday a.m. August 22--saw WISN-12 at about 450 miles as well as much QRM on all channels. On more positive side were the 12 new loggings seen between September 4 and 7, including longest translator logging of W39AB Greenville, TN at 510 miles plus VHF's and UHF's across the Appalachian Mountains. Log stands at 470, with 12 new this report. Best DX--73's."

September			5 Tr 0730			7 Tr 0455				
3 Tr 2245	WKYT-27 KY	360	1900	WGTO-6 MI			WGHP-8 NC			
	WTVQ-62 KY	360		Sault Ste Marie	330		High Point	620		
	WXIX-19 OH	300	6	0525	WAVE-3 KY	330	WXII-12 NC			
	WCHI-48 OH	300			WHAS-11 KY	330	Winston-Salem	620		
2300	WWUP-10 OH	330			WLKY-32 KY	330	WHIZ-18 OH	360		
2315	CICOP-28 OH	400	0530		WCCO-4 MN	320	0500	WHTS-6 WV	520	
4	0455	WBWS-5 OH	330		WTCN-11 MN	320		WBWS-5 OH	330	
		WJKW-8 OH	330		KSTP-5 MN	310		WJKW-8 OH	330	
0500		WHAS-11 KY	330		WHO-13 IA	310	0510	WUAB-43 OH	330	
		WAVE-3 KY	330		KELO-11 SD	450		WKYH-57 KY	440	
		WLKY-32 KY	330	0545	KYTV-3 MO		0518	WCHS-8 WV	430	
		WWUP-10 MI	330		Springfield	470	0525	WOMH-4 OH	320	
0515	WUAB-43 OH	330			LSD-5 MO	300		WTVN-6 OH	320	
0545	WKYT-27 KY	360	0555	WKYT-27 KY	360			WAVE-3 KY	330	
	WTVQ-62 KY	360			WTVQ-62 KY	360		WHAS-11 KY	330	
1930	WLBP-36 WI				KCBJ-17 MO	340		WLKY-32 KY	330	
	Park Falls	280	0600		WDRB-41 KY	330	0542	WPTF-28 NC		
2000	KYIN-24 IA	270			KBMA-41 MO	430		Durham	660	
2030	KBYC-12 MO	330	0610		KMBG-14 IA	430	0555	WKYI-27 KY	360	
2130	KWIN-21 IA	320			KCCI-8 IA	310		WTVQ-62 KY	360	
2140	KDNL-11 IA	310	0615		WLEX-18 KY	360		WKPT-19 TN	510	
	KDNL-30 MO	300	0630		K33AA-33 IA			W39AB-39 TN		
2155	KMBG-14 IA	430			Ottumwa	260		Greenville	510	
2200	KPCI-17 MN	310	0645		KXNB-19 NE	480	0600	WFLJ-21 OH	380	
2202	WOI-5 IA	300	0650		WFIE-14 IN	320	0610	WJHL-11 TN	520	
2230	WTCN-11 MN	320			KDNL-30 MO	300	0630	WPGH-53 PA	430	
5	0440	KPLR-11 MO	300	0730	K76B2-76 IA		0645	WAKR-23 OH	340	
		WUUC-6 MI	280		Ottumwa	260	0700	KDNL-30 MO	300	
0445	WJET-24 PA	400			(WHO-13 xltr)			WUUL-33 WV	420	
0515	WCCO-4 MN	320			WESO-29 KY	420	2230	WSTV-47 VA	480	
	WTCN-11 MN	320			WENR-38 KY	380		WPBO-42 OH	420	
	KSTP-5 MN	310			WKON-52 KY	330		WKPT-19 TN	510	
0525	KFVS-12 MO	370			WKPC-15 KY	330	8	0515	WDBJ-7 VA	560
0545	W72AJ-72 MI	240			WKEJ-68 KY	330		WELS-10 VA	560	
	W76AI-76 MI	240						WXII-12 NC	620	
	"72 repeating		1900		W5IU-8 IL		0522	WLOS-13 NC	570	
	KPLR-11"				Carbondale	350	0525	WJHL-11 TN	520	
0548	WSEB-35 PA	400	2215		WKYH-57 KY	440	0530	WATE-6 TN	510	
0550	WUAB-43 OH	330			KQVC-27 MO	470		WBIR-10 TN	510	
0555	KTV-4 IA	430	2230		KQKZ-21 MO		0555	WKPT-19 TN	510	
0600	WKYT-27 KY	360			Springfield	470	0615	WTVK-26 TN	510	
	WTVQ-62 KY	360			WXIX-19 OH	300		WKYT-27 KY	360	
	KCBJ-17 MO	340			WCET-48 OH	300		WTVQ-62 KY	360	
	WKYH-57 KY	440			WUUL-33 WV	420	0620	W39AB-39 TN	510	
0615	KBYC-12 MN	330			WPBO-42 OH	370	2230	WPBO-42 OH	370	
	KCCI-8 IA	310			W5B#-58 OH		9	0500	WUUL-33 WV	420
0625	WUUL-33 WV	420			High Point	330		WXIX-19 OH	300	
0645	WOI-5 IA	300			(WGET-48 xltr)			KMOX-4 MO	300	
	KFVS-3 IA	260	7	0445	WYLV-33 OH	380	0525	WBIR-10 TN	510	
0650	KMBG-14 IA	430			WKBN-27 OH	380	0600	WZLH-27 OH	380	
0700	KELO-11 SD	450			WZRF-7 WV	420		WYLV-33 OH	380	
0710	WFIE-14 IN	320			WOME-13 WV	420		WAKR-23 OH	340	
0730	WKSQ-29 KY	420			W57AG-57 WV			WPGH-53 PA	430	
	WKMR-38 KY	380			Farmersburg	400	26	0600	WLEX-18 KY	360
	WKON-52 KY	330			"WUUL-33 xltr			WKYT-27 KY	360	
	WKG-53 KY	400			repeating			WTVQ-62 KY	360	
	WCVN-54 KY	310			WYTV-33 OH"			WLKY-32 KY	330	
			0453		WHAS-11 KY	330	0615	WXIX-19 OH	300	

Don Ruland (continued)

<u>September</u>									
26 Tr 0615	WCET-48 OH 300	26 Tr 0655	WPGH-53 PA 430	24 Tr 0645	WHNT-19 AL 550				
	W58#-58 OH 330		WUAB-43 OH 330		WAAY-31 AL 550				
0645	KTIN-21 LA 320		0700	KBIN-32 IA 420	0653	KRCG-13 MO 360			
	KHIN-36 IA 400	<u>October</u>			0655	KMTC-27 MO 470			
0650	WFTJ-21 OH 380	24 Tr 0545	WHO-13 IA 310		0700	KOLR-10 MO 470			
	WCBN-27 OH 380		0550	KPLR-11 MO 300		KTWJ-16 MO 520			
	WYTV-33 OH 380		0555	KEA-41 MO 430	0730	WTVR-48 AL 560			
			0600	KCCI-8 IA 310		WZGB-53 KY 400			

Paul L. Gaines 15920 Puritan Street Detroit, Michigan 48227 (EDT)

<u>September</u>									
10 Tr 0207	WWUP-10 MI 285	10 Tr 0226	WCWK-13 WV 280	10 Tr 0347	WSAZ-2 WV 280				
		0328	WBAT-2 MI 275	11	WSAZ-3 WV 280				
					0319	WTVZ-4 IN 280			

Steven Shaffer 10956 Indianapolis Blvd. Box 4 Hammond, Indiana 46326 (CDT)

<u>August</u>									
4 Tr 0550	WXYZ-7 MI	23 Tr 0845	unID-32 PBS	6 Tr 0700	WBAU-13 WI				
21	1000 WYAV-4 IN		0937	WTVN-56 MI	7	0601	WUAB-43 OH		
23	0609 WXYT-27 KY		0940	Pt. Wayne U's		0603	WKBD-50 MI		
	0610 WPCO-15 KY	24	0638	WHAS-11 KY		0608	WKBN-27 OH		
	0615 WDBO-24 OH	<u>September</u>				0610	WWMJ-21 OH		
0620	WLKY-32 KY	5 Tr 0838	WPNB-38 WI	9	1000	WHRN-20 WI			
	0838 WKBD-50 MI		0840	WKBD-50 MI	24	0215	WJOK-11 WI		
		6	0657	WKCJ-27 WI					

"I hear from John Zondlo that he got a good opening via tropo into Washington DC, but I just wasn't around to get into it. I wonder what success others have had with P2. Also, during the P2 years, is there increased Es activity? (Es and P2 peak activity are not directly related; there have been both good and bad Es years during P2 peaks -bt) This has been a good tropo season, but it really doesn't compensate for some good long-haul Es, which is much more exciting. 73 & gud DX"

Frank Wheeler 6589 Wattaburg Road Erie, Pennsylvania 16509 (EST)

<u>October</u>									
18 Es 2223	WFBT-2 FL 1098	18 Es 2334	KPRC-2 TX 1210	30 Tr 0900	WPRN-7 MI 338				
	2230 WBDU-3 FL 994	19	0004	KDFW-4 TX 1117	0925	WHIO-7 OH 272			
		30 Tr 0830	WCPO-9 OH 307	Totals:	267, 214	varies			

"I was surprised at the tropo on the 30th, I probably could have received more if I had been up earlier."

Rich Turcsany 7 Cayer Circle Shelton, Connecticut 06484 (EDT)

<u>August</u>									
1 Es 0000	WUAB-2 MS 1000	10 Es 1100	WSAY-3 GA	2 Tr 1100	Philly U's				
	0005+ unIDs 2, 3		Savannah		Tidewater U's				
	1100 WTHS-2 FL 1050	1130	WSB-2 GA 720		Philly V's				
	1129 WESH-2 FL 860		WRBL-3 GA		WVEC-13 VA				
	1515 unID-5		Columbus	14	1100	Scranton U's			
3	1300 WTHS-2 FL 1050	11	1056	WBRZ-2 LA 1080		Philly U's			
4 Tr 1500	"usual U's"		1130	KETS-2 AR 1000	15	0700	WVEC-13 VA 300		
	1940 Allentown U's	14 Tr 0800	Baltimore U's		16	1000	WCTI-12 NC 450		
5	0000 "usual U's"		to Philly U's			1000	Boston U's		
7	0950 WBRZ-2 LA 1080		WSEA-43 PA				Philly U's		
	WLBT-3 MS? T		1000	WLII-15 PA			Salisbury U's		
8	1120 WTHS-2 FL 1050		2300	Salisbury U's			DC U's		
	WBDU-3 FL 920		NJ, Philly U's				WLVT-39 PA		
9	1440 WUAB-2 MS? T	15	2330	Salisbury U's	19	2000	Allentown U's		
10	0923 WBDU-3 FL 920		NJ, Philly U's				WPHL-17 PA 140		
	0946 WESH-2 FL 860	16 Es 1045	unID-3				WVTA-41 VT 150		
	0950 WJXT-4 FL	19 Tr 2125	WENH-11 NH				0700	WXNE-25 MA 140	
	Jacksonville		Darham				1430	Scranton U's	
	1015 WUFT-5 FL	22	1000	WTVZ-11 NC			1300	Scranton U's	
	Gainesville 860		Raleigh	440					
	1038 WBRZ-2 LA 1080	<u>September</u>							
	1100 WGBD-2 SC 650	2 Tr 1100	Salisbury U's						

Also, frequent relogs of Boston, Springfield, Worcester, and Providence U's. "Unfortunately, I didn't get any of that big tropo most Southern and Midwestern DXers received. However, I was able to get last signs of skip on 8/10, logged 4 new stations. Most unusual station I'dx was WTVZ-11 on 8/22; WPIX started to roll sync, and later heard audio with ID...more like skip conditions than tropo. (Probably a narrow coastal tropo duct -bt) Good to hear WSNL-67 will be coming back on. W69AI (WTVG xltr) comes in fair w/no fading at all...73's"

Roy Barstow 70 Heritage Circle Teaticket, Massachusetts 02536 (617)548-2329
 "On raising the TRI X tower this spring the top section bent over and the 7' dish was damaged. So, with a heavy work load, it stayed that way all summer. to make matters worse, the rotor broke for the antennas on my house, so I tied it down aimed towards Boston. In September I got the tower fixed, and it's about 5' shorter. I fixed the damaged dish the best I could. Then, I went to the hardware store and got two pieces of aluminum screening (4' x 4') and attached these to the front of the dish. I wired it to the elements and trimmed all around the dish and let 1" overlap. So now, all that space between the elements is being reflected back to the receiving dipole, the antenna now being 7' 2". I have never heard of this being done and yet it is a simple thing. It just takes a little wiring it on but it works great. I pick up WHTT-17 NY & WLIW-21 NY rain or shine. If anyone wants more detailed info I could write an article for the digest on it. This summer's Es with antenna on roof in a N.W. heading gave me Es on 5/31, 6/11, 6/12, 6/20, 7/11, 8/1, 8/3, and 8/10. Only new one was KARD-3 KS on June 20th."

October	13 Tr 1900	WHRO-15 VA "snowfree"	13 Tr 1900	#53AA-53 NY (#CBS-2 xltr)	22 Tr 0900	WSBA-43 PA 1130 WBFF-45 MD
13 Tr 1900	WB0C-16 MD	to	#59AA-59 CT (#VIT-30 xltr)	23	0000	WBCC-16 MD WBTA-26 DC
	WGPE-28 MD		2400 "snowfree"		to	WYAH-27 VA WJCL-22 GA
	"All Philly stns excellent"	21	evening	WHRO-15 VA WBCC-16 MD	0200	WRDU-28 NC? T
	WTVG-68 NJ			WDCA-20 DC	0825	WUNJ-39 NC WJPM-33 SC
	W60AI-60 NY (WTVG-68 xltr)			WEAA-26 DC		WJBA-14 SC
	W66AA-66 NY (WABC-7 xltr)	22	0900	WDT-65 CT WDCA-20 DC	to	Allendale WRLK-35 SC
	W57AB-57 NY (WHBC-4 xltr)			WVIR-29 VA		1120 WCVW-57 VA
	W62AA-62 NY New York City			to "snow free at times, also on ch 46 xltr?"		"WJWV-57 also on or about channel 77. (Probably one of their xltres -bt)
	2400 (WNUJ-47 xltr)		1130	WLVF-39 PA		

"All of the above stations were picked up with tower not cranked up, and below some scrub pine trees. I should do better after it's up 65'. So watch out Florida, next summer."

Jim Alexander 4 Brook Court Parsippany, New Jersey 07054

October	30 Tr 2300	WFF-28 NC Durham	31 Tr 0700	WRJA-36 NC Charlotte
30 Tr 2030	WENK-33 VT Burlington	255	2330	WRJA-27 SC Sunder
	2100 WMBG-26 ME	270		580
	2230 WJTL-33 SC Florence	31	0700	WCCB-18 NC Charlotte
	WUNK-25 NC? T	550		520

"The October 30th tropo opening brought the first 400-plus mile tropo I've seen at this QTH since coming here over 21 years ago. The ducting effects were quite interesting, with first WJPM-33 in and no other South Carolina stations, and then WRJA-27 in without any sign of the Columbia R's. It sure was great to finally see some good coastal tropo."

Jeff Wolf 1131 University Blvd. W. Apt. 701 Silver Spring, Maryland 20902

June	1 Es	0014	unIDs 2,3	CCI	12 Es	1700	WEDU-3 FL	21 Es	1017	WUP ch 4	
		1930	unIDs 2,3			1900	WERC-2 TX? T		1124	KLZ-3 LA 1000	
		2234	unID-3			2016	"Cuba-3"	22 Tr	1001	WVLD-11 NC	
6		2038	unIDs 2,3		13	2302	unID-2 "weak"			"audio thru WBAI"	
		147	MUF ch 4		14	1706	MUF ch 4	23 Es	1433	unID-3 AB	
		2050	"Cuba ch 2?"			1724	KCBS-3 LA 983		1440	MUF ch 4	
		8 Tr	2357	unID-8		2200	WFL-2 AS 1100	24	1007	unIDs 2,3	
		9 Es	1707	unID-2 PBS	15	1731	KERC-2 TX		1033	MUF ch 5	
			1900	KQTV-2 MO		1906	WUP ch 4		1200	WFL-2 FL 900	
			1805	WBBF-2 IL? T	20	1701	unIDs 2,3			"Cuba-3"	
11			1815	unID-3 CBS		1809	KDLC-3 SD Watertown	25	1230	WEDU-3 FL 846	
			1817	MUF ch 4			1901	MUF ch 4		0923	MUF ch 4
			1854	KQTV-3 NE? T			2030	KTVG-3 IA		1048	KB-X-3 TX 1245
			2100	KMTS-2 AR			820	820		1100	KTE-2 OK 1000
			2114	WLET-3 MS			2100	KLA-3 NE 1133	26	2353	unID-2 CCI
			2338	unIDs 15, 16			2295	WUP ch 5	27 Tr	2120	unIDs 23, 31
12 Es			1657	MUF ch 4			2329	"Es fade out"			

WESTERN TV-DX

Bill Block
9307 S.E. Clay St.
Portland, OR 97216

DECEMBER 1973

So, far this fall no DX of any kind has been seen here in Portland. Even the Eugene stations some 100 miles are only seen once a week or so. This will be my last Western TV-DX so watch the WUD for the new editor. The main reason that I am giving up this column is because of the very poor support that Frank Aden has received from the members. Since Frank became the WUD editor he has received very little in the way of technical articles. Frank has had all of the info for the WTPDA TV STATION GUIDE done since last spring but so far no guide! And now almost one year later the TV STATION GUIDE will have to be done over again as there is so many changes. Frank has talked to WTPDA Headquarters about the problem but he has received no action. And now on to the reports.

B. J. Gattin, 4305 1st, Duluth, Minnesota 55804

This will be a very short report. There was absolutely no DX during October. It shows what a strange year this has been. During the summer when DX here is usually mediocre, I was seeing 800, 900, and even 1,000 mile two-way openings. Now comes fall when DX is usually excellent, and there's nothing. And this has even been an unusually warm fall. By the way, I saw Bob Cooper on KBC news. In full color, his set up is even more impressive. Here's hoping that my next report has some loggings to include. A huge high-pressure area has moved in and promises to stagnate over the next few days.

Pat Dyer, 5315 Silvertip Drive, San Antonio, Texas 78229 CST

Equipment, 1970 mode. 9-inch black-and-white Penncrest; Archer V-100 and 8-way bow-tie UHF array at 20 feet w/rotor. New underlined new mode, t-tentative.

October 1978

04 Es 2250-2315 unIDs 2	21 Es 1830 WJRT 2 TN 1010	28 Es 1110 f/outs
05 Es 0150 WDAY 2 WI 1190	1840 unIDs 2-6	1845-1900 unIDs 2-6
ms 0344 WSB 2 GA 880	1930 MUF 98.9	1900 KTVQ 3 MO 835
Es 1655 unID 2	1959 WPMY 2 NC 1175	WBMM 2 IL 1045
1835 KNXT 2 CA 1190	WDAY 3 NC 1250	WMT 2 IA 945
1910 f/out	2035 WCBdt 2 SC 1120	1959 WFWO 2 IN 935
06 Es 1610-2000 unIDs 2-6	2100 WEDU 3 FL 985	29 Es 0830-0900 unIDs 2-4
1629 XEW0 2 Jal 690	2105 WPBT 2 FL 1150	0858 WFWO 2 IN 935
KNBCT4 CA 1190	2115 WESH 2 FL 1055	0945 WBMM 2 FL 1045
1645 TSut 4 El Sal	2250 f/outs	1100 WDAY 2 WI 1190
1750 KTLAT5 CA 1190	23 Es 2035 KOAT 2 AZ 855	1125 f/outs
1915 KETVt6 BCN 1100	unID 3	30 Es 0745 unIDs 2
1932 KNXT 2 CA 1190	2050 KNXTt 2 CA 1190	0800 WESH 2 FL 1055
09 Es 1935-2000 unIDs 2	2150 f/outs	0815 WEDU 3 FL 985
16 ms 0343 WSB 2 GA 880	26 Es 1200 YSR 2 El Sal.	0820 WPBT 2 FL 1015
18 ms 0341 WSB 2 GA 880	1920 WPBTt 2 FL 1150	0828 WJXTt 4 FL 1015
Es 1810 WPBTt2 FL 1150	28 Es 0559 WCBd 2 SC 1120	WTVJ 4 FL 1150
1857 YSR 2 El Sal	0605 WCIVt 4 SC 1120	31 Es 0603 WESHt 2 FL 1055
1900 f/outs	0615 MUF 89.3	0825 Cuba 3
1945-50 unIDs 2	0630 WSAV 3 GA 1050	0840 WPBTt 2 FL 1150
19 Es 1829 XHBC 3 BCN 1010	0803 WJXTt 4 FL 1015	0845 WEDU 3 FL 985
	0900 WESH 2 FL 1055	0850 apr f/outs

A good late October showing of Es, particularly all the early morning openings (which are rare in non-summer season). Evening Es of October 6 linked with 50-MHz F2 mode to South America (see my column). WSB-ms ID's nice as they include a digital time superimposed. 73, Pat WA5IYA

Bill Block, 9307 S.E. Clay St., Portland, Oregon 97216

I received a card today from John Anderson saying that he has sent me 2 reports that should have been in the October WUD. I have NOT received these two reports as yet! I have had a lot of trouble with the Portland F.O. as my phone bill took over one week. It has been fun doing this column. I hope that the members and Headquarters will give the new WUD editor-in-chief more support than it has to Frank. This will be my last report to WTPDA as I will no longer support it. 73 and good DX to all. Bill

December, 1978

LEADLY 1. Early 9th

E-SKIP BRIGHTENS A CUTEYIES VDDY DULL OCTOBER

DX activity dwindled quite a bit during October. Major trop openings that October is famous for failed to materialize. Somewhat surprising though, a-skip made a somewhat unusual but modest attempt to take up the slack with showings on four different dates in October along with two September dates. May better DXing be with you in the coming new year.

REPORT YOUR DX TO THIS COLUMN IF YOU ARE FROM: AL, AR, AZ, CA, CO, DE, FL, GA, KS, KY, LA, MD, MS, NC, NV, OK, SC, TN, UT, VA, & WV. ALSO MEXICO.

Pat Dyer, 5315 Silvertin Dr., San Antonio, TX 78228 - Sept. 7 to Nov. 1, 1978 (CST)

Equipment: Hallicrafters SE-62 with International Crystal SAK-1 preamp(s); six-el.

Archer FM antenna at 20 ft. with rotor. t-tentative

9/2

Es 1550 WSCIt 89.3 SC Charleston 1120
WXTct 96.9 SC Charleston, EL 1120
1553 WPKI 95.1 SC Charleston, nx, wx
1600 WJTT 89.9 FL Jacksonville, nx, FPP
1615 f/out

9/7

Es 1930-35 TGRtt 88.8 GU Guatemala City

9/25

tr 0230 KRXK 105.7 TX Longview, ID 310

10/21

Es 1859 WEP 96.0 MO Joldsboro, nx, ID
1008 WQDP 94.7 MO Raleigh, rk, ID 1230
tr 1914 KQXY 94.1 TX Resumont, ndr 275

10/21

Es 1030 unID 93.0 (WUF
1945 WSM 93.1 NC Fayetteville, "n-98"
1950 WLS 95.1 NC Kinston, k, ID 1275
1955 f/out

10/28

Es 0615 WSCIt 89.3 SC Charleston 1120
1903 WMT 90.1 IL Chicago, REI 1045
WJUT 89.5 IL DeKalb 1020
WJBT 91.5 IL Chicago 1045
1909 WZM 96.9 IL Zion, town rent, 1080
WJAT 94.7 IL Chicago, rk 1045
1910 WJCN 98.1 MI Saginaw, k, ads 1250
1922 unID 93.3 ("TF)
1930-42 spotty until f/out

Now you can see why I didn't send a rerort in for September alone. Late October Es openings finally livened things up a bit. October 28th, however, rather meager compared to the several hour event on the same date in 1977 (but pretty much to the same region.) Anyway, the best WUF's in that direction since sometime back in July. '73, Pat WAFITX

Randall R. Clark, RT5 Dutch Ridge, Parkersburg, WV 26101 - Oct. 1978

Equipment: Radio Shack "Patrolman-6" 2 1/2 inch whi for FM-RSB. Tentending with
WJIL 95.1 at one mile away! All stations are tr and new.

10/2

0132 WLOF 99.9 NC Asheville, Wled
(o/WAF, Super!, state no. 16)

10/5

2306 WQV 101.0 WV Logan

10/8

0108 WPC 101.9 OH Cincinnati, GL

10/27

0216 WLC 99.1 without "TF" in the way.
Note: That WPC longins on 6-10 in on 105.1
not 93.1.

Well hello again! Bottom ox has not prevailed with in listening for a of vet... It's about time that I climb the soap box for a comment of interest. One thing I've noticed that's lacking within the WUC is this: Festivals from the opposite sex on how they got into it is most interesting hobby. It would make interesting reading since most 98% of the members are males' the comments out there? (Don't be too bashful to respond ladies, DR) Speaking of rare Es, I'm proud to announce that I've just signed none at or then a-skip, Northern Indiana sound music on 41.25 or 50 kHz. I've heard on October 17th at 1156 m to 128 m, EDM. Super catch! I've heard this several times afterward as well! I received the other 3 stations covers... Paintsville, KY--now that's something worth a visit to ver a... I wish you the best of DX and by the way, I've read it a very merry Christmas!

Rick Sanford, 404 S. McNeill, Burnet, TX 78611 - Oct. 4 to Nov. 1, 1978 (CST)

Tropo presented me with very few surprises during October, but (like Oct. '77) I did pull in a little off-season Es to liver this up a bit. The Es was first noted on the TV about 1730 with some weak, unIDed WJCN heard shortly thereafter. This soon faded out and I didn't check again until the loggings below were made. From Oct. 10-13 I had a stagnant tr opening which often brought in Monterrey with good signals in the very early afternoon. This opening was basically worthless, however, since not enough new stations were added (probably had Monterrey 94.1 and 100.0 plus Saltillo 94.7, all of which would have been new longings) and the distances were short-range. WJCN Midland and WJCN Monterrey (both 93.3) didn't have much trouble making it in over the new 100K "local" WJCN, during this stormy time to the south and west. Not all Mexican stations heard at a river time are heard since getting satisfactory IDs is more difficult and

-cont-

time consuming (especially for one who doesn't have much Spanish expertise and since most have heard many times before and all are under 400 mi.) I can't see that they're worth the extra time. For example, KHPL 96.1, Monterrey is heard a large percentage of the time when XHJD is in, but these are usually the only Monterrey stations heard during weak openings.

10/6

Es 1902 XJFE 94.1 PU Puebla, ID and
"La Chica Musical"
1904 XHJM 92.5 PU Puebla, ID, "\$ Rey"
1938 KIFM 98.1 CA San Diego, ad
1940 KSON 97.3 CA San Diego, ad, k
1942 KFSD 94.1 CA San Diego, ID
1944 KXLY 98.5 CA Cathedral City, nx, ID
1948 KYX 96.5 CA San Diego
1951 KPZZ 94.9 CA San Diego, was KLRO
but IDed as "The New K-Bess 95-FM", nx
1954 XHFM 92.5 FCN Tijuana, S. D. nx
plus a few unIDs from CA & MX this eve.

10/10

tr 0101 KYKK 94.1 NM Humble City, s/off
0105 XHJD 98.9 NL Monterrey 365
0830 KBJM 94.9 NM Roswell, nx 410
0833 KOYL 97.9 TX Odessa, ID 255
0834 KQIP 96.9 TX Odessa, ID
0858 XHJD 98.9 NL Monterrey, "\$ 99"
0914 KYKK 94.1 NM Humble City 325
1241 XHJD 91.9 COA Sabinas, many 265
times tent., "equi on Sabinas", heard
other times during this tr spell.
1249 XHSRO 92.5 NL Monterrey, "\$ Rey"
2017 XHJD 98.9 NL Monterrey
2037 KWOE 106.9 OK Clinton, ID 325
2351 XHPJ 106.9 NL Monterrey, \$, cl,
hard to believe this one has a pri-
mary of four mi. when you've seen it on
the verge of pegging the meter as
many times as I have.

10/11

tr 0757 XHJD 98.9 NL Monterrey 365
0805 KOYL 97.9 TX Odessa, ID 255
0925 KQIP 96.9 TX Odessa, ad
0931 KOCY 91.3 TX Odessa, wx, w/KNCT
1014 KTDY 99.9 LA Lafayette, ad 385
2159 XHJD 98.9 NL Monterrey
2358 KHYS 98.5 TX Port Arthur 260
(ID & "Kiss-98", now disco, was p)

10/12

tr 0734 XHJD 98.9 NL Monterrey 365
0749 KPJH 94.3 TX Fort Stockton 275
0758 KYKK 94.1 NM Humble City, ID 325
(returned after 1100 and probably had
XOHH 91.1, but /out before ID)

10/13

tr 0014 XHJD 98.9 NL Monterrey 365
0024 KORA 103.7 LA Lake Charles, PSA 310
0038 ETDY 99.9 LA Lafayette, ad 385
0101 KYKK 94.1 NM Humble City, s/off 325
0630 KROK 94.5 LA Shreveport, promo 290

10/16

tr 0858 KHYS 94.5 TX Port Arthur, wx 260

10/18

tr 0845 KYKR 93.3 TX Port Arthur, "Super
Kicker", PSA, KHYS off very briefly.

10/19

tr 0930 XHJD 98.9 NL Monterrey 365

10/20

tr 0903 KYKK 94.1 NM Humble City 325

10/21

tr 0815 KTDY 99.9 LA Lafayette, ad 385
0830 XHJD 98.9 NL Monterrey 365
0852 WILD 98.5 LA New Orleans, nx 500
0901 WEZB 97.1 LA New Orleans, ID
0915 WYFF 102.5 LA Baton Rouge, ID 435
0916 KGLL 107.1 LA Houma, promo 470
0925 JINK 101.5 LA Baton Rouge, ID
0929 KQKI 95.3 LA Bayou Vista, ID 435
0936 WGI 103.3 LA Hammond, ad 475
1001 WAFB 98.1 LA Baton Rouge, ID
1005 KGRA 103.7 LA Lake Charles, ad 310
1013 KPRA 105.5 LA Franklin, ID 420
1031 KGLL 99.5 LA Lake Charles, ID
2327 KVVP 105.5 LA Leesville, ID 300

10/22

tr 0031 WAFB 98.1 LA Baton Rouge, ID 435
0034 XHJD 98.9 NL Monterrey 365
0058 KFNE 95.3 TX Big Spring 215
(s/off, "K-95")
0102 KYKK 94.1 NM Humble City, s/off 325
0830 XHJD 98.9 NL Monterrey
0839 KYLS 98.9 OK Oklahoma City, ad 325
0853 KOH 104.1 OK OKG, Midwest City
church services
I saw WBAF-2 at 1900, so checked for FM
Es, but instead:
1921 WJMI 99.7 MS Jackson 500
2301 WLEL 105.3 LA Slidell, ID 520

10/31

tr 0748 KRIX 99.5 TX Brownsville, ad 340
(relogs of KLBK & KLLI, Lubbock omitted.)

Danny Buntin, 1020 S. Duncan, Stillwater, OK 74074 - Oct, '78 (COT)

Equipment: Pioneer FX-9100 tuner, 10 el. Antennacraft antenna at 34 ft. with rotor.

10/20

Es 1802 WJOT 89.9 FL Jacksonville 990
1804 WPUZ 93.7 FL Ocala 1010
1816 WMLV 94.5 FL Daytona Beach, "Love FM"

10/20

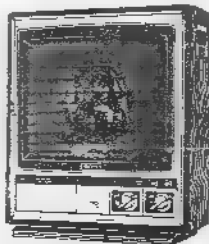
Es 1821 WJGA 95.9 GA Valdosta 900
1836 WJAX 95.1 FL Jacksonville, rk, ad

****MERRY CHRISTMAS EVERYONE!****

This October's skip was the first time I ever heard it in that month. I was hoping for a big tr duct to develop like it did last year (Oct.) but nothing out of the ordinary happened except for a few appearances from Memphis's strongest station, however weak.



WOOFDA!!
WOOFDA!!



NORTHERN FM-DX

Bruce Goldsen
27 Spruce Hill Road
Georgetown, CT 06829
(203) 544-8214

Deadline: the 10th

Send in your DX now, if you live in WA,OR,ID,WY,ND,SD,NE,MN,IA or east of the Mississippi River and north of the Mason-Dixon line.....

A bonanza of reporters this month: fifteen!!! For the sake of space, I'm using "elite" type this time, rather than my typewriter's "pica" type. This way, I should be able to keep it down to nine or ten pages! On with the DX...

Walter Breville 9127 Coral Dr. St. Louis, MO 63123 (GDT)

DX from country home in Wright City, MO, 45 miles W of downtown St. Louis:

7/3	2150 KMBR 99.7 MO Kansas City, ID	8/21	0100 WSM 95.5 TN Nashville, ID
2200 KXTR 96.5 MO Kansas City, classical	0030 WNMU 90.1 MI Marquette, wx, s/off		
2140 KYFS 102.1 MO Kansas City, "KY-102" rock	DX from home in St. Louis.		
2330 KDMI 97.3 IA Des Moines, ID	8/21		
7/4	2310 WBBF 98.9 IL Rock Island, ID		
0030 WOI 90.1 IA Ames, jazz, s/off	2355 WIOX 106.9 AL Birmingham, "Kicks 106.9"		
0005 KXCV 90.5 MO Maryville, girl DJ, rock	8/22		
8/19	0028 WIXX 101.1 WI Green Bay, ID		
2200 WPLN 90.3 TN Nashville, classical, ID	0102 WAMZ 97.5 KY Louisville, k, ID		
8/20	0125 KFMB 99.7 IA Muscatine, "99 plus", pr		
1220 WIBM 97.3 KS Topeka, "Rock 97" ID	0915 WNAF 93.1 IN Indianapolis, rock		

All new loggings except WIXX, which I got 8 years ago as WBAY. All tropo. All loggings at both locations with indoor antenna. Equipment: at St. Louis home, a Marantz 2270 receiver and Rembrandt rabbit ears, I'm located 9 miles SW of the gateway arch. At my country place near Wright City I have a Technics ST-7000 tuner using the dipole wire that came with it for the antenna up till now. I just finished installing an eight element Winegard CB-45 FM yagi with rotor atop the A-frame, have not had any chance to really try it out yet, but I sure will soon. 73, Walt.

Patrick Martin-PO Box 14192-Portland, OR 97214 (PST)

5/11 Es	2142 KBPI 105.9 CO Denver, r	6/13 Es	continued
	2145 KOAQ 103.5 CO Denver, spot	1900 KLON 88.1 CA Long Beach, ID	
	MS 2211 KOCM 103.1 CA Newport Beach	1901 KCSN 88.5 CA Northridge, ID, NPR	
5/13 MS	2330 KMTY 97.5 CA Merced, spot	1903 KNJO 92.7 CA Thousand Oaks, stocks	
5/14 Tr	2342 KBVR 90.1 OR Corvallis, r	6/24 Es	
5/15 GW	2340 KSLC 90.3 OR McMinnville	1201 KUNM 90.1 NM Albuquerque, r	
	Tr 2345 KDUK 104.7 WA Aberdeen, ET	1214 KOB 93.3 NM Albuquerque, MOR, EZL	
5/16 GW	2009 KPQD 97.7 OR Seaside, xlator	1218 KJWK 94.9 NM Aztec, r	
5/19 Tr	1915 KRBS 103.1 OR Roseburg	1221 KALL 94.1 UT Salt Lake City, spot, ID	
	MC 1918 KKTU 103.3 CA Ukiah, r	1223 KAIL 92.1 UT Monticello, // to 94.1	
	1922 XHVR 103.3 BC Mexicali, spot	1225 KRAZ 96.9 NM Farmington, ID @ .229	
5 20 Tr	0726 KVIP 98.1 CA Redding, 77i	1238 KHFM 96.3 NM Albuquerque, opera	
	MC 0733 KMTY 97.5 CA Merced, again	1241 KRKE 94.1 NM Albuquerque, r, spots	
	0728 K??? 97.5 Unid gospel stn.	1246 KLYT 88.3 NM Albuquerque, rel. prog.	
	Tr 0738 KJSN 92.5 OR Klamath Falls, r	1252 KANW 89.1 NM Albuquerque, r, PSAs	
5/21 Tr	1724 KSOR 90.1 OR Ashland, r	1258 KPWK 92.9 NM Farmington, ID	
5/22 Tr	1746 KLCC 89.7 OR Eugene, \$	6/29 Es	
	1755 KTOY 91.7 WA Tacoma	2030 CHFM 97.5 MB Winnipeg, c/w	
	1802 KRVM 91.9 OR Eugene	2049 CJUS 89.7 SK Saskatoon, c, apt	
5/23 Es	1830 KUSP? 90.3 CA San Francisco	2055 GKY 92.1 MB Winnipeg, ex	
	(brief Es UNID stn from the S w/ jazz??)	2058 CBW 98.3 MB Winnipeg, c	
	Tr 1934 KPQ 102.1 WA Wenatchee	2059 CFIQ 94.3 ME Winnipeg, spots	
	2345 KIXI 95.7 WA Seattle	2101 CBKA 105.9 SK Buffalo Narrows, // CBK	
	2355 KEWT 105.1 CA Sacramento, MOR	2103 CBKD 103.5 SK La Ronge, // CBKA, \$	
5/24 MS	2.00 KTHO 103.1 CA S. Lake Tahoe	7/6 Es	
6/2 Tr	1950 KTMF 93.7 OR Medford, r	2238 XHERS 104.5 BC Tijuana, again	
6/9 Es	1925 XHERS 104.5 SS mx program	2242 XEHS 90.3 BC Tijuana, \$, like local!	
6 13 Es		2247 XHRM 92.5 BC Tijuana, SS	
.820 KWT 105.9 CA Los Angeles, r		2249 KGLL 94.3 CA San Fernando, tx	
1823 XHERS 104.5 BC Tijuana again in SS		2253 KLOM 88.1 CA Long Beach, jazz, ID	
.827 KBIG 104.3 CA Los Angeles		2309 KSDS 88.3 CA San Diego, jazz	
.832 KAGB 103.9 CA Inglewood, EZL		2109 KSPC 88.7 CA Claremont, PSAs, r	
1845 KOST 103.5 CA Los Angeles, ID		2117 KPBS 89.5 CA San Diego, PBS pgm (7-ed,	
1847 KOCM 103.1 CA Newport Beach, tx		2207 KCRW 89.9 CA Santa Monica, r	
1849 KFMB 100.7 CA San Diego, r, ID		more...	
1851 KHAY 100.7 CA Ventura, c/w			
1856 KDAR 98.3 CA Oxnard, religious			

Patrick Martin report, continued

7/15 Es

2108 XEHS 90.3 BC Tijuana, r, strong!

2125 KVCR 91.9 CA San Bernardino, NPR

2126 XHRM 92.5 BC Tijuana, SS

2141 KECR 93.3 CA El Cajon, relig.

Equipment Pioneer 9100 receiver, 100 element SC650 Winegard Yagi antenna.

Since the last time I reported, I have moved to Hillsboro, a small town 15 miles west of Portland, away from the TV & FM transmitters and towers. It helps quite a bit. 7/3, Patrick Martin.

Eric Pader-23-35 Bell Blvd.-Bayside, NY 11360

6/30 Es

1/45 KAMS 95.1 AR Mammoth Springs, "Radio Jark," "State Line Wx"

1803 KSAR 95.9 AR Salem, ID, k, \$

1810 UNID 91.7 NPR

1810 UNID 91.9 NPR, likely KASU, AR

1812 CFTI 92.1 ON Timmins, ID

1815 KPGY 9.9 IA Ames, poss. ID, bu, 10w

7/3 Tr

0004 WPLM 99.1 MA Plymouth, ID

0200 WRSR 96.1 MA Worcester, s/off

7/5 Tr

0101 WHUR 96.3 DC Washington

0107 WFW 89.3 DC Washington, jazz, mono

01.7 WFDU 89.5 NJ Teaneck, s/or (why?)

7/21 Tr

0117 WNNN 101.7 NJ Canton, s/tem relig?

0129 WVAR 106.5 MD Baltimore, inst.

0145 WDAC 94.5 PA Lancaster, MOR & rel.

0145 WSTW 93.7 DE Wilmington, perfect sig.

0200 WHP 97.3 PA Harrisburg, CBS nx

0207 WQXA 105.7 PA York, "Q-106," Top40

0233 WFW 89.3 DC Washington, jazz

DJ mentioned call from Brooklyn.

New underlines--log now at 208. Equipment: Concord CR-260 stereo, Archer Rabbit ears.

Robert S. Roes-Box 4373, Stn.C-Grand, ON N5W 5J2 (EST)

4/9 Tr WNEB 94.5 NY Buffalo

4/12 Tr WQOD 93.3 ON Youngstown

4/13 Tr WHEM 98.9 NY Rochester

4/26 Tr CFNY 102.1 ON Toronto

4/27 Tr CBEG 106.3 ON Sarnia, # CBE-AM

5/2 Tr WBNY 96.1 NY Buffalo

5/2 Tr WMJQ 92.3 NY Rochester

5/3 Tr WYSU 88.5 ON Youngstown

5/3 Tr WFOR 100.5 NY Rochester

All stations were logged with indoor antenna. I live in a 13th floor apartment, so I have good height working for me--approximately 130'. Equipment: Marantz 2226, rabbit ears.

Roger Wuisse-Box 463-Robart IN 46342

8/22

WVJC 89.1 IL Mt. Carmel, "Rock for the Wabash Valley"

WPCD 88.7 IL Champaign, r, \$

WVLK 92.9 KY Lexington, ID o/WNDU

WPPK 91.9 KY Louisville, c

8/23

KCKC 88.3 IA Cedar Rapids, ID, c

KNWS 101.9 IA Waterloo

also all Madison & Milwaukee stns in like locals that evening...

2315 WKDD 96.5 OH Akron, wx, ID, r

2318 WRMZ 99.1 OH Columbus, BE promo, r

2340 WEMU 89.1 MI Ypsilanti, jazz

2341 WYSU 88.5 OH Youngstown, \$c, 12M s/off

Total heard now 753, in 39 states, Canada and Cuba. Equipment: Kenwood KT6005 receiver, Pioneer SA8100 amp.

Michael Hogan-9224 Cottage Grove Avenue-Highland, IN 46322 (CDT)

7/5 Tr KSUI 91.7 IA Iowa City, very strong signal

This was the only noteworthy catch within the last several months. Total logged now stands at 235 w 50 stns on the educational band. Magnavox 1143 rcvr, Stereo Probe antenna.

2146 KFSD 94.1 CA San Diego, c

2156 XHQS 95.7 BC Tijuana, SS

2201 KSON 97.3 CA San Diego, c/w

2207 KLRQ 94.9 CA San Diego, relig

Equipment SC650 Winegard Yagi antenna.

Since the last time I reported, I have moved to Hillsboro, a small town 15 miles west of Portland, away from the TV & FM transmitters and towers. It helps quite a bit. 7/3, Patrick Martin.

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Peter Sawatzky-R.R. #4-Guelph, ON N1H 6J1 (EDT)

6/14 Es
1059 KILQ 93.9 CO Colorado Springs, ex-KPIK
6/20 Es
1900 WLSU 88.9 WI La Crosse
2128 KCBI 89.3 TX Dallas
2131 KPLX 99.5 TX Fort Worth
2151 WZZQ 102.9 MS Jackson
2215 KETR 88.9 TX Commerce
1800 KTEH* 93.3 OK Ada
1830-1930 KROA* 95.7 NE Grand Island
1830-1930 KBRX* 92.7 NE O'Neill
1900 KVNQ* 90.7 NE Omaha
6/24-25 Es (times are 1000 6/24, 1400 6/25)
1000-1400 WLPR* 96.1 AL Mobile
WULA* 92.7 AL Eufaula
WMEZ* 94.1 FL Pensacola
WPCS* 89.3 FL Pensacola
WPAP* 92.5 FL Panama City
6/25 Tr 2310 WICB 91.7 NY Ithaca
6/26 Tr 2250 WAUS 90.7 MI Berrien Springs
6/28 Tr 1636 WSRD 101.1 OH Youngstown
2312 WRUR 88.5 NY Rochester
6/29 Tr 2355 CJBC# 95.5 ON Belleville (#17)
6/30 GW 0019 CB?? 93.5 ON London
6/30 Es
0159 KERA 90.1 TX Dallas
0209 KROZ 92.1 TX Tyler
0216 KFJZ 97.1 TX Fort Worth
0218 KVTI 91.7 TX Dallas
0229 KCOI 89.3 TX Dallas
0234 KAFM 92.5 TX Dallas
0245 KNUB 98.7 TX Dallas
0249 KECB 94.7 OK Oklahoma City
1113 WTNZ 94.9 FL Miami Beach
1115 WLQY 98.7 FL Fort Pierce
1119 WMJX 96.3 FL Miami
1120 WATA 97.3 FL Miami
1122 WLMC 103.1 FL Okeechobee
1126 WTHI 93.1 FL Miami
1.28 WMCF 92.7 FL Stuart
1129 WAPG 90.3 FL Ft. Lauderdale
1130 WFFY 92.5 FL Key West
1210 WUSF 89.7 FL Tampa
1.23 WRCC 103.9 FL Cape Coral
1.424 WPAP 92.5 FL Panama City
1.536 WBYU 95.7 LA New Orleans
1725 WQID 93.7 MS Biloxi
1728 WCPG 93.3 MS Houston
1.730 KOSL 91.7 OK Stillwater
1.722 WQST 92.5 MS Forest
(last 4 from Waterloo, ON)
1.600-1646 WNIC* 90.1 MS Senatobia
1.600-1646 KWGS* 89.5 OK Tulsa
1100-1630 WOKP* 95.7 FL Clearwater
1100-1630 KNGT* 103.9 TX Marshall
1732 KKNQ* 92.5 OK Oklahoma City
1749 WKXI* 94.7 MS Jackson
1749 WJMI* 99.7 MS Jackson
1200 WCCF* 92.7 FL Punta Gorda
1100-1630 WDUV* 103.3 FL Bradenton
1100-1630 WQXM* 97.9 FL Clearwater
1100-1630 WQUE* 93.3 LA New Orleans
7/26 Tr continued
0059 WPTH 95.1 IN Fort Wayne
0110 WQMX 101.7 IN Fort Wayne
0130 WVJC 89.1 IL Mount Carmel
0.46 WBGL 90.3 IN Fort Wayne
0147 WVUB 91.1 IN Vincennes
0152 WRIA 101.3 IN Richmond
7/71 Es 0021 KJAK 92.7 TX Slaton
0059 KACV 89.9 TX Amarillo
0059 KBUF 97.3 TX Garden City
7/2 Tr 1242 WQSU 88.9 PA Sellersgrove
7/4 Tr 2158 WCHL 91.7 MI Alpena
2239 CKQM 105.1 ON Peterborough
7/6 Tr
0019 KLIK 103.7 IA Davenport, prev. by MS
0050 WNUB 89.3 IL Evanston
0059 WHAD 90.7 WI Delafield
0107 WSNB 88.9 IN Notre Dame
0103 WNIU 89.5 IL De Kalb
0113 WLAJ 96.9 MI Grand Rapids
0152 WMLW 101.3 MI Grand Rapids, ex-WYON
0213 WVUB 91.1 IN Vincennes
0234 WMBD 93.3 IL Peoria
0246 WMMH 92.7 IL Arlington Heights
0259 WKMS 91.3 KY Murray
0259 WBEZ 91.5 IL Chicago
0715 WVJC 89.1 IL Mount Carmel
0729 WDCB 90.9 IL Glen Ellyn
0745 WBCS 102.9 WI Milwaukee
0745 WEZW 103.7 WI Wauwatosa
0748 KUMR 88.5 MO Rolla (715 miles! by Tr)
0800 WCBU 89.9 IL Peoria
0814 WAUS 90.7 MI Berrien Springs
2205 WZZR 95.7 MI Grand Rapids, ex-WZZM
2210 WAZY 96.5 IN Lafayette
7/7 Tr
0017 WMP 97.3 PA Harrisburg
1100-1800 WCLJ* 90.9 OH Jefferson, testing
with unmod carrier, ID as New Lyme, OH.
7/9 Tr 2330 WUHY 90.9 PA Philadelphia
2352 WRTI 90.1 PA Philadelphia
7/10 Tr 0013 WBRE 98.5 PA Wilkes-Barre
0041 WFOV 90.7 NY New York
0055 WSBA 103.3 PA York
7/12-13 Es 0800-0100 KIVV* 92.7 TX Crockett
7/13 Tr 2330 WAUS 90.7 MI Berrien Springs
7/14 Tr 0759 WHAD 90.7 WI Delafield
2304 WMBL 90.1 IL Chicago
7/15 Tr 0037 WIAN 90.1 IN Indianapolis
7/19 Tr 1.725 CJBC# 96.5 ON Penetanguishene (#20)
2004 WVEW 88.9 WV Buckhannon
2006 WVPB 91.7 WV Beckley
7/20 Tr 2204 WETA 90.9 DC Washington
7/21 Tr 0815 WAUS 90.7 MI Berrien Springs
7/22 Tr 0209 WRUW 91.1 OH Cleveland (10W!)
7/25 Tr 2306 WNPB 93.1 TN Indianapolis
2308 WPMG 95.5 TN Indianapolis
2310 WLKL 100.1 TN Angola
2313 WPIU 103.7 IN Bloomington
2343 WNKI 100.5 IN Kokomo
7/26 Tr
0005 WSVL 97.1 IN Shelbyville
0025 WFMG 95.5 IN Indianapolis
0027 WHDH 102.5 IN New Castle
0036 WHRI 106.9 IN Marion
0044 WNPB 93.1 IN Indianapolis
0057 WCTC 92.3 IN Bloomington
0203 WFIU 103.7 IN Bloomington
0212 WLNH 97.9 IN Anderson
8/4 Tr 0007 CBEG 106.3 ON Sarnia
8/12 Tr 0326 WFMH 92.1 PA Johnstown
8/18 Tr 2325 WANC 90.3 NY Albany
2359 WNEA 90.1 ME Portland

Equipment: Pioneer IX 9500 tuner & homebrew automated DX equipment; Delhi 1047 @ 70',
* indicates loggings made on tape with automated equipment and time not precisely known
unless given by announcer; new underlined. 73, Pete

Mike Bugaj-69 Sherman Road Enfield, CT 06082

5/1 At
 1830 WNUZ 103.5 MI Detroit
 WBEH 102.5 NY Buffalo
 1845 WPHD 103.3 NY Buffalo
 1914 WNCI 97.9 OH Columbus
 1916 WFOR 98.7 VA Norfolk
 1923 WGH 97.3 VA Norfolk
 1925 WCLW 105.3 OH Mansfield
 22.0 AU out
 5/12 Es 1841 WBLX 92.9 AL Mobile, s
 1843 WABB 97.5 AL Mobile, r
 1851 UNIB 98.5 mellow 98??

5/31 Es
 2159 WSSR 91.9 MO Springfield
 2202 KTHM 88.4 MO Jefferson City
 2210 WDWS 97.5 IL Champaign
 2209 KSLQ 98.1 MO St. Louis
 2210 WLBH 96.9 IL Mattoon
 2210 WDBR 103.7 IL Springfield
 2210 KMOX 103.3 MO St. Louis
 2212 KEZK 102.5 MO St. Louis
 22.6 KFMD 92.9 IA Dubuque, "D-93"
 2217 WPAD 96.9 KY Paducah
 2218 KMBR 99.7 MO Kansas City, "FM-100"
 2222 KFMD 98.3 MO Columbia
 2224 KUDL 98.1 KS Kansas City, mono
 2228 KCKN 94.1 KS Kansas City
 2230 KUSD 89.7 SD Vermillion, AM&FM ID
 2251 KTJJ 98.5 MO Farmington
 2300 KWII 90.3 IA Sioux City
 2301 KCMW 90.9 MO Warrensburg
 6/11 Es
 0900 WONE 98.5 FL Panama City, "Q-98"
 0902 WOOF 99.7 AL Dothan
 0943 WKLN 92.1 AL Cullman, "KLN-FM"
 1038 WRUL 97.3 IL Carmi
 1045 KWTO 98.7 MO Springfield, "Rock 99"
 1048 KCLU 94.3 MO Rolla, mono
 1049 WHIX 94.1 IL Mt. Vernon, "9-94"
 1054 LNID 89.1 Powerline Prog, 9
 1058 KCLC 89.1 MO St. Charles, g, mono
 1105 KRMS 94.3 MO Oage Beach
 1110 WSMI 106.1 IL Litchfield
 1119 WACF 98.5 IL Paris
 1125 WLRW 94.5 IL Champaign
 1126 WQOZ 95.1 IL Decatur, c/w
 1132 WDBR 103.7 IL Springfield
 1138 KFIX 106.5 MO Liberty
 1143 KGRC 92.9 MO Hannibal
 1148 WLEW 97.3 KS Topeka, "Rock 97"
 1210 KMGO 98.7 IA Centerville, g
 1809 WIVY 95.5 AL Dothan, "Great Amar Ctry"
 1811 WLOV 100.1 GA Washington
 1830-0000 Tropo to Norfolk, WKRI, WQRK, etc.
 1941 WKSJ 94.9 AL Mobile (back to Es)
 2004 WACI 92.1 IL Freeport
 2106 WMRQ 92.1 MS Brookhaven
 6/12 Tr 0439 WDBE 96.5 PA Philadelphia, tx
 0450 WBCB 96.1 PA Red Lion
 0505 WMYK 97.7 NC Elizabeth City
 Es 1709 WBLR 92.1 SC Batesburg
 1719 WPEH 92.3 GA Lewisville
 1725 WFMF 100.1 GA Forsythe, mono
 1736 WBLX 92.4 AL Mobile
 Tr 1805 WYVA 94.1 VA Yorktown
 Es 1824 WSPB 106.3 FL Sarasota, "W106"
 1829 WQXM 97.9 FL Clearwater "98-r"
 1830 WSOR 95.3 FL Fort Myers
 1831 WFLA 93.3 FL Tampa
 1850 WYMF 94.9 FL Tampa
 1900 WKFS 101.5 FL St. Petersburg
 Tr 2049 WFL 106.5 NC Bridgeton
 6/14 Es 1726 WGNB 98.5 FL Panama City

6/18 Tr 2000 WADV 106.5 NY Buffalo, nx
 2041 WBIV 107.7 NY Wethersfield, g
 2104 WZTA 105.5 PA Tamaqua

6/20 Es
 1750 KRMI 96.9 KS Pittsburg
 1800 KSCM 97.1 MO Florissant
 1806 KRRR 97.9 KS Wichita
 1806 KMOE 92.1 MO Butler
 1810 K??? 100.9 KS Clay Center, nx
 1811 KQAD 100.9 MN Luverne
 1817 KMBR 99.7 MO Kansas City
 1822 KXEL 105.7 IA Waterloo, r
 1823 KTFX 101.3 IA Sioux City
 1824 WJAG 106.7 NE Norfolk
 1830 KRFY 98.9 NE Kearney
 1830 KSEZ 97.9 IA Sioux City
 1836 KSRD 96.9 NE Seward
 1845 KWYR 93.7 SD Winner, o/WLVR local
 1858 KYSM 103.5 MN Mankato
 1901 WHIC 94.3 IA Hardinsburg, dinner mx
 1902 WKYQ 93.3 KY Paducah
 1904 WHRZ 97.7 KY Providence
 1906 WKWV 98.1 AL Fayette, "FM-98"
 1909 WPAD 96.9 KY Paducah
 1911 WJGA 92.1 GA Jackson
 1912 WMSK 95.3 KY Morganfield, r
 1936 WHRK 97.1 TN Memphis, "K-97," r
 1943 WGSN 99.7 KY Louisville, EZL
 1948 WSTU 91.9 IL Carbondale
 1954 WSOX 89.9 KY Madisonville, g
 1955-2100 Es dropped off, returned super
 strong at 2100, however.
 2110 WTVK 107.7 TN Knoxville, c/w
 2115 WYMQ 106.5 TN Chattanooga, "Wink"
 2121 KZNN 105.3 MO Rolla, "Easy-Lovin c/w"
 2131 KICK 105.7 no listing in FM atlas
 2132 KKNK 104.5 OK Pryor, mono, AM&FM ID
 2154 KEYN 103.7 KS Wichita, r
 2157 KARD 107.3 KS Wichita, "Card" EZL
 2215 KTOV 92.1 OK Broken Arrow

6/30 Es
 1748 KQMA 104.5 OK Pryor, mono
 1751 WABD 107.9 KY Ft. Campbell, "108-FM"
 1754 KKYK 103.7 AR Little Rock, "K-Kick"
 1758 KTFX 103.3 OK Tulsa, r
 1800 had to leave, but Es still bombing in.
 7/4 Es 1205 WNCJ 90.1 MS Senatobia
 7/6 Tr
 0735 CJOH 88.7 ON Windsor, EZL
 1804 CKPC 92.1 ON Brantford
 1811 CKDS 95.3 ON Hamilton
 2012 CHUM 104.5 ON Toronto, r
 2100-2110 Norfolk again: WKRI, WQRK, etc.
 2113 WPHD 103.3 NY Buffalo
 2114 WBEH 102.5 NY Buffalo, pegging meter
 2117 UNID 94.5 mono, concert, prob. WNED
 2124 WBUV 92.9 NY Buffalo, "B-93"
 2306 WQSU 88.9 PA Selingsgrove
 7/10 Es 2125 WJCT 89.9 FL Jacksonville
 2132 WAMR 92.1 FL Venice

7/11 Es
 2056 WYKE 92.1 WI Sun Prairie, "92FM"
 2058 WLVE 94.9 WI Madison
 2104 WGRD 97.9 MI Grand Rapids, r
 2104 WKZN 96.9 IL Zion, "someone to turn to"
 2106 WZOK 97.5 IL Rockford
 2108 KXEL 105.7 IA Waterloo
 2119 WCGI 107.5 IL Chicago
 2121 KTKK 103.7 IA Davenport
 2127 WYEN 106.7 IL Des Plaines
 2127 WFLR 103.5 IL Chicago, "103.5"
 2129 KRNQ 102.5 IA Des Moines, "Q-102"
 2133 KRDS 96.1 IA Clinton, "Gateway Area"

Mike Sagaj report, continued

2136 WMET 95.5 IL Chicago, Top40
 2137 WLUP 97.9 IL Chicago, "the 'oop"
 2142 WBBM 96.3 IL Chicago, "BEM-FM"
 2,46 WLNR 106.3 IL Lansing
 2151 KILJ 105.5 IA Mr. Pleasant
 2152 KGRS 107.3 IA Burlington, "Rock 107"
 2154 WAUR 107.9 IL Aurora, "108-FM"
 2200 KTOF 104.5 IA Cedar Rapids, g
 2201 KSFT 105.1 MO St. Louis
 2217 KNZA 103.9 KS Hiawatha
 2221 WGRL 97.7 where????
 2223 WKZW 93.3 IL Peoria, "KZ-93, "the \$-Z"
 2225 KTGJ 92.1 IA Fort Dodge
 2240 WCLL 94.3 IL Chillicothe
 2337 KBHL 95.3 NE Lincoln
 7/12 Es 1900-2000 all Miami area, WMCU,
 WCMQ, WINZ, WSHE, & WQHL
 7/14 Es 2203 KQDY 94.5 ND Bismarck
 8/18 Tr
 1831 WEZO 101.3 NY Rochester, 'EZO-S"
 1832 WDKX 103.9 NY Rochester, soul
 2025 WONO 107.9 NY Syracuse, c, finally!
 2035 CFGL 105.7 PQ Laval, FF, c
 2218 CTTQ 107.1 ON Toronto; r, "Q-107"
 2224 CKFM 99.9 ON Toronto, j
 2239 CBM 93.5 PQ Montreal, // CBL 94.1
 8/21 Tr
 0709 WMUZ 103.5 MI Detroit
 0715 WFRB 105.3 MD Frostburg, \$
 0730 WSHH 99.7 PA Pittsburgh, "Wish"
 1830-2200 very heavy tropo c/w & SW;
 strong signals; WBBM & WFRB excellent

Equipment: Sony 5130 tuner, Finco FM-5 @35' w/rotor. Total now 912. New underlined.
 August was a good tropo month. I've been waiting 4 years for Cleveland, and finally
 I get treated to two openings. KLAZ-98.5 was in for about 6 minutes (I left the
 recorder running trying to get a WGCL ID on tape but instead I heard KLAZ gradually
 fade up and stay there). As far as I can tell, FM had no Es that nite. Signal strength
 was fair in \$, probably from WYCR, which was left after KLAZ faded.

Ralph Strobel-2510 E. McCallard Road-Muncie, IN (CDT)

3/11 Tr 0300 WNKR 95.3 KY Falmouth, r, \$, "Voice of N Kentucky"
 4/9 Tr 0300 WLFC 88.3 OH Findlay, p, mono (10watt)
 4/24 Tr 0400 WVAJ 99.9 WV Charleston, r, \$, WVUD off
 The remainder of loggins are Tr, except for one noted exception\$
 5/18 0855 WDCB# 90.9 IL Glen Ellyn, r, j, \$, s/off
 0900 WEPs# 90.9 IL Elgin, s/on
 5/19 0300 WCMJ 91.7 MI Alpena, j, \$
 5/21 2300 WUKV 92.5 WI West Bend, m, \$
 5/22 0200 WHKC 103.1 KY Henderson, r, p, \$, "KC-103"
 5/25 0130 WECT 91.5 IN Richmond, r, mono (10watt)
 5/28 0423 WBZF 101.7 KY Michmond, r, \$
 5/30 0745 KPIN 107.9 AR Jonesboro, m, \$
 6/6 0030 WKSI 102.3 IL El Dorado, r, \$, s/off
 0115 WBDC 100.9 IN Huntingburg, k, \$, "BDC-101"
 6/11 0200 KLUW 88.9 MO Jefferson City, S, mono
 6/15 0300 WHAJ 104.5 WV Bluefield, m, \$, "\$-104"
 0400 WHIN 104.5 TN Gallatin, r, \$, "104"
 550 WWDs 90.5 IN Muncie, r, m, \$, (10watt), testing
 2200 WAKO 103.1 IL Lawrenceville, k, mono
 6/20 Es*1200 KTCB 93.9 AZ Flagstaff, g, \$
 6/23 2120 WMEV 93.9 VA Marion, r, mono
 6/27 2150 WEHB 89.9 MI Grand Rapids, r, s, mono, "90-FM"
 7/4 2300 KTMO 98.9 MO Kennett, k, \$
 7/5 2200 WTCV 102.9 TN Shelbyville-Fullahoma, g, mono, s/off
 7/10 1900 WIPU 89.1 IN Fort Wayne, c, \$
 7/14 1445 KPMW 107.9 IA Waterloo-Cedar Rapids, m, "\$-108"
 7/15 0605 WKFR 103.3 MI Battle Creek, r, "\$-103"
 7/20 0127 WAAW 103.7 KY Murray, rp, \$, "The FM Station"
 8/2 0200 WKDF 103.3 TN Nashville, p, \$, "KDF"
 0312 WHEZ 103.3 WV Huntington, m, \$
 0338 WFAW 95.9 PA Sharpsville, r, mono, "FM-96"
 0400 WBBB 96.2 IN Bloomington, r, \$, "97 WB"

8/5 0130 WYFC 101.5 OH Gallipolis, m, \$
 1415 WNNR 90.9 OH Canal Fulton, r

Equipment: Heathkit AJ-15.0 r vr, Wine-
 gard antenna #60', Lo; i tals 227 w/.78
 educational band & 28 10-wattars. Best
 states--OH-148; TN-132; IL-104; MI-87.
 73, Ralph

Joseph Feia-150 Robert Place-South Plainfield, NJ 07080 (ELT)

7/22 Es 8/22 Tr
 1930 WCTF 9.1.3 FL Lakeland, ID, Cent. FL wx 0004 WRLX 106.9 NY Auburn, nx, s/off
 1933 WAMR 92.1 FL Venice, nx, wx, ID 0034 WBRQ 101.5 IL Bloomington, r, ID
 200. WCCF 92.7 FL Punta Gorda, ID 0039 WKWK 106.5 WV Clarkeburg, c/w, IDs
 2.02 WCMP 92.1 MN Pine City, ending nx, ID 0057 KCKK 88.3 IA Cedar Rapids, s/off
 2106 WRLS 92.1 WI Hayward, ID, Brewers BB 875 mile tropo. First 'k' call via tropo
 2126 KAYE 91.7 MN Grand Rapids, ID First station heard by both Es & Tr
 8/18 Tr 1945 WEZF 92.9 VT Burlington, EZL 0058 WDCP 90.5 PA Pittsburgh, s/off
 8/21 Tr 0101 WGTG 91.3 OH Toledo, s/off
 221. WEEP 107.9 PA Pittsburgh, c/w, YL DJ, ID 0105 WCMU⁺ 89.5 MI Mt. Pleasant, wx
 231. WGET 107.7 PA Gettysburg, strong w/nx 0123 WLEN⁺ 103.9 MI Adrian, c/w, local ad
 2316 WFFZ 92.9 VT Burlington, good again 0128 WSLT⁺ 91.9 IL Carbondale, local wx
 2320 WVOF 100.5 NY Rochester, r, "R-100" 2100 WQLN 91.3 PA Erie, NPR staff, c/u TN
 2328 WXXI 91.5 NY Rochester, local, alendar The Tr on the morning of the 22nd was
 2358 WECQ 01.7 NY Geneva, ID into nx surely amazing---KCKK exceeds what I ever
 expected to do via Tr in terms of distance.
 Equipment Pioneer SX-82B receiver, Pair of Antennacraft GPM 10's, stacked @35' w/rotor

Harry J. Hayes Star Route, Box 226-C - Gouldsboro, PA 18424 (EDT)

5/27 Tr *-DX from Wilkes-Barre, PA
 2238 WHUR 96.3 DC Washington 7/12*Es
 2256 WXXA 105.9 VA Alexandria 1952 WOKF 95.7 FL Clearwater
 2355 WBRK 101.7 MA Pittsfield, s/off, CBS nx 7/22 Es
 5/28 Es 1940 MUF to 91.3, So. FL 2045 WDAY 93.7 ND Fargo, EZL, strong
 5/29 Es 1610 MUF to 91.3, So. FL 2100 KCCM 91.1 MN Moorehead, NPR, ID
 5 31*Es 2210 KMCK 93.3 IA Des Moines 2106 UNID 91.1 "This is NPR on the voice of
 6/12*Es the Gateway, WIGE" thru KCCM. Who's this?
 1710 WRCI 93.5 FL Naples, r, "93-RCI" 2110 KQWB 98.7 MN Moo. ehead, r, thru WBRE-98.5
 1737 WFLA 93.3 FL Tampa, "FM-94" 2110 KTD⁺ 99.9 MN Moorehead, r
 1844 KWEN 95.5 OK Tulsa 8/13 MS
 6/20*Es 0335 WFLR 98.5 IL Freeport, burst on ID
 1800 KOEL 92.3 KS Newton, ID, EZL 0344 WFLR 98.5 again on super burst, ID, time
 2100 KWEN 95.5 OK Tulsa 8/20 Tr
 2105 UNID 93.5 "DGD News" 2045 WOMC 104.3 MI Detroit, soft-rock
 2115 KVGB 104.3 KS Great Bend 2245 WAEZ 97.5 OH Akron, EZL
 2125 WZAT 102.1 GA Savannah 8/21*Tr
 2150 WKWI 93.3 KS Kansas City 2036 WNOZ 99.9 NY Cortland, r, "the Nose 'x'-WKRT
 2200 KICT 95.1 KS Wichita, "S-95" 2100 WEEP 107.9 PA Pittsburgh, c/w
 2208 KTTS 94.7 MO Springfield, map offer 2150 WSWF 99.3 NY Seneca Falls, blasting in
 6/24 Es on the quad loop w/rock. A Class-A stn!!!
 1052 WRL9 93.9 FL Miami Beach 2230 WDEE 102.5 PA Pittsburgh
 1055 WATA 97.3 FL Miami 8/22*Tr---great tropo continue
 1111 WMLX 96.3 FL Miami, "96-X" 0725 WHJ 97.1 MI Detroit, "something beauti-
 7 1*Es ful to turn to," fair sig on quad.
 2130 WLVF 94.9 WI Baraboo, "Love Stereo" 0735 WRKY 103.5 OH Steubenville, "rocky-103"
 2140 WZZW 103.7 WI Wausau, IA 8/23*Tr 0728 WAEZ 97.5 OH Akron, blasting in
 2143 KNET 103.9 IA Waukon 8/24*Tr 0726 WHJ 97.1 MI Detroit, excellent
 2145 WZEE 104.1 WI Madison, "Z-104," wx
 2155 KLSX 106.1 IA Mason City 1978 will go down on the books as a very poor
 2200 KLFM 104.1 IA Ames, EZL, "we play fav's" year for skip, but if the tropo continue as
 2217 KGBI 100.7 NE Omaha, relig pgm. they have been, the year will be worth some-
 thing.
 Equipment: Gouldsboro Zenith Trans-Oceanic w/whip. Wilkes-Barre-Zenith Trans-Oceanic w/
 FM Quad loop. 73, Harry.

Fred McCormack-909 12th Street North-Fargo, ND 58102 (CDT)

DX from Des Lacs, ND:
 8/5 Tr 1005 CB-- 105.5 SK Saskatoon, CBC-FM, \$
 8/6 Tr 0847 WJJY 106.7 MN Brainerd, r, MBS
 DX from Fargo, ND:
 8/13 Tr 0315 WIRW 97.3 KS Topeka, "rock 97"
 0021 KOWH 94.1 NE Omaha, r, "FM94" 0323 KTRP 106.9 KS Topeka, automated c/w
 0026 KFNH 101.1 KS Oberlin, "proud c/w" 0943 KIGA 92.7 IA Algona
 0034 WAXX 104.5 WI Eau Claire, c/w 0944 KMCK 93.3 IA Des Moines, r
 0048 KGGG 94.9 IA Des Moines, r, "FM95" 8/24 Tr 0550 CB- 100.9 OH Dryden, mono CBC
 0249 KAGE 95.3 MN Winona 9/2 Tr
 0257 KINT 90.9 IA Cedar Falls, j, s/off 1915 WJJY 106.7 MN Brainerd, rock
 0300 WTEB 98.9 WI Tomah, "music one" 1020 WUPM 106.9 MI Ironwood
 0305 KOKQ 98.5 IA Council Bluffs, r, "KQ98" 1033 KLIZ 107.5 MN Brainerd
 Equipment: Des Lacs Heath AR-1500 receiver, JFD 10-element log antenna
 Fargo- Heath AR-15, rabbit ears

It's been a slow DX year here, but the tropo on the 13th was probably as good as any
 noted here in Fargo. 73, Fred

Bruce Elving-18% E. Fifth St. Duluth, MN 55805

8/12-13 Tr 7/8 Tr
 KWIT 90.3 IA Sioux City,\$
 KBK 107.3 MO Lexington,\$
 KFIX 106.5 MO Liberty,"The Radio Prog.", \$
 KSRD 96.9 NE Seward,\$
 7/14 Tr
 WOCH 106.1 IN N. Vernon,\$
 WSMJ 99.5 IN Greenfield,\$,+SCA
 WAXI 104.9 IN Rockville,\$,while WGGG off
 WWRV 105.5 IN W.Terre Haute
 7/13 Tr
 WTAZ 102.3 IL Morton,\$
 WDZQ 95.1 IL Decatur,\$
 WIHN 96.7 IL Normal,\$
 WSSR 91.9 IL Springfield,\$
 WPRC 100.1 IL Lincoln
 KTJJ 98.5 MO Farmington,\$,no SCA noted

New on the air in this area: KFMC 106.5, Fairmont, MN, \$,m,UPI Audio.
 WEVE 100.1, Eveleth, MN, \$,Y,km
 WJJY 106.7, Brainerd, MN,\$,m
 KLIZ Brainerd now 107.5, having moved from 95.7. still r,
 and running SCA w/ m.

Equipment: Sony ST5130 tuner, or a Fisher 500TX receiver, both modified for SCA reception.

Fred Nordquist-7945 Boxford Road-Clay, NY 13041 (EDT)

7/11 Es (2126-2340 MUF 100.3)
 2133 KCFM 93.7 MO St. Louis, ID, r,\$
 2142 WNAF 93.1 IN Indianapolis, ID
 2143 WKYC 93.3 KY Paducah, ID, k
 2158 WISU 89.7 IN Terre Haute,wx
 2200 WIAW 90.1 IN Indianapolis, ID
 2236 KCIC 89.1 MO St. Charles, council mtg
 2332 KCUR 89.1 KS Wichita, jazz
 7/12 Es 1728 unids , 7/14 Es 2203 unids
 7/14 GW 2306 WTR 89.7 NY Henrietta, TT
 7/18 MS 2218 KGIN 93.7 IA Carroll, prev Es
 7/23 Tr 0008 WPMF 105.5 PA Punxsatawneys/off
 7/30 GW 2145 UNID 95.3 TT, L + C, who??
 8/3 GW 1910 WNOZ 99.9 NY Cortland, back
 on air with automated \$rock, "the Nose"
 8/11 GW 2048 WRLX 106.9 NY Auburn, now \$,m
 8/18 Tr
 2058 CIME 99.5 PQ Ste. Adele, \$,r
 2102 CITE#107.3 PQ Montreal, PFC(#2)
 8/19 Tr 0835 WBA 107.1 NY Glens Falls
 0854 WHWB 98.1 VT Rutland,wx
 GW 1553 WAQX 95.3 NY Manlius, new,
 \$,r, '95-X"
 8/20 Tr, Super
 2050 WOKI 100.3 TN Oak Ridge, r, "FM100"
 2159 WPLN 90.3 TN Nashville, annats.

It was a thrill to log four Little Rock stations via Tr in one night! Two milestones thus were attained this reporting period: 1000 mile Tr and 1000 stations logged .. never though it was possible, hi!
 Equipment: Heathkit AJ-15 receiver, JFD LPL FM 10A Antenna at 45', Alliance Antenna Rotor. New underlined, Dashed indicates relog, new propagation mode. 73, Fred.

John E. Elving-9209 Vincent Ave. S.-Bloomington, MN 55431 (CST)

8/12 Tr DX from Prossit, MN:
 1830 KOKQ 98.5 IA Council Bluffs
 1831 KEZO 92.3 NE Omaha, mor
 1858 KUSD 89.7 SD Vermillion, jazz
 1902 KTRX 93.5 MO Tarkio, Royals BE
 1912 KROA 95.7 NE Grand Island, g
 1939 KRGI 96.5 NE Grand Island, auto k
 1955 KCV 90.5 MO Maryville, jazz
 2000 KFOR 102.7 NE Lincoln
 2004 KWIT 90.3 IA Sioux City
 2018 KICD 107.7 IA Spencer
 2045 KCKN 94.1 KS Kansas City
 2100 WIBW 97.3 KS Topeka, r, "Rock 97"
 2255 KLIK 103.7 IA Davenport, r
 8/13 Tr
 0001 KGMH 94.1 NE Omaha
 0002 KEFM 96.1 NE Omaha, r
 0915 KLGA 92.7 IA Algona, nx
 0945 KBKQ 104.3 MO Kansas City, "A 140"
 1030 KWAY 99.3 IA Waverly
 1045 KMGO 98.7 IA Centerville, nx, \$
 1055 KBK 107.3 MO Lexington, k, \$
 1058 KZEV 103.1 IA Clear Lake
 1059 KLFM 104.1 IA Ames, nx, +SCA
 1100 WRHI 91.3 WI Highland

John Ebeling report, continued

1133 KILR 95.9 IA Esterville, nx
 1145 KNEI 103.9 IA Waukon, "swap shop"
 1200 KMMU 90.7 MO St. Louis, +SCA w/TxBk
 1208 KCLC 89.1 MO St. Charles, ethnic
 1235 KCOI 95.3 MN Albert Lea
 1239 KEYA 88.5 ND Belcourt, k
 1248 KSCF 97.1 MO Florissant, mor, "KS-97"
 2200 KROA 95.7 NE Grand Island
 2304 WKZY 97.1 MI Escanaba, s/off
 2305 KMIT 102.3 SD Mitchell, s/off
 2311 KGOR 99.9 NE Omaha, r, "Rock 100" +SCA
 2315 KLIN 107.3 NE Lincoln, MOR
 2335 WQCT 105.7 IL Peoria, r
 2340 WOSH 103.9 WI Oshkosh, r
 2346 KCKN 94.1 KS Kansas City
 2357 WROL 94.3 WI Neenah, mor
 2358 WCLR 101.9 IL Chicago, s
 8/14 Tr
 0007 KEMR 99.7 IA Muscatine, r "99+"
 0030 WYEN 106.7 IL Des Plaines, r
 0045 WZOK 97.5 IL Rockford, album rock
 0047 KAGE 95.3 MN Winna, "KG"
 0055 WCLR 102.5 MI Bay City, mor
 8/15 Es 1158 CHFN 95.9 AB Calgary, r
 1200 CJAY 92.1 AB Calgary, r, "CJ-9+."
 8/22 Tr 1115 WRVM 102.7 WI Suring
 1127 WIGM 99.3 WI Medford
 1130 WCFW 105.5 WI Chippewa Falls
 1130 WHD 90.7 WI Delafield
 1210 WBOS 102.9 WI Milwaukee
 1500 WJMT 93.5 WI Merrill

DX From Thunder Bay, ON:

8/25 Tr
 2000 WHIO 99.1 OH Dayton, mor
 2005 WUBE 105.1 OH Cincinnati, k
 2010 WJFM 93.7 MI Grand Rapids, now r, +SCA
 2015 WBZI 95.3 OH Xenia
 2016 WJML 98.9 MI Petoakey
 2029 WPMK 99.1 MI East Lansing
 2030 WTCM 103.5 MI Traverse City
 2030 WCSG 92.3 MI Grand Rapids
 2045 WITL 100.7 MI Lansing
 2100 WLSA 106.7 MN Brainerd
 2100 KAYE 91.7 MN Grand Rapids
 2105 WFTN 104.7 MI Escanaba, r, +SCA
 2106 WCLW 105.3 OH Mansfield, NBC nx
 2130 WRCO 101.3 OH Ashland, k, "Big 101"
 "Music All America Wants to Hear"
 2131 WRRN 107.9 WI Rhinelander, mor
 2140 WDAY 93.7 ND Fargo, mor

DX from Prusit, MN using ST-5130 tuner and 5-element Yagi FM antenna mounted in attic of cabin. All times CST. DX from Thunder Bay while car was parked in driveway of my mother-in-law. Equip was Audiovox C-520 car radio (no booster).

73, John

KOET QRM

WHO SAYS TV INTERFERENCE CLEARED UP?

Officials of the Oklahoma Educational Television Authority say their crews have eliminated interference problems caused by OETA Channel 3, but television viewers in this Pittsburg County town of Quinton say it's news to them.

"All you have to do is come down here and turn on a TV, and you can see it's still messed up," said Dora Wemberly.

A group of residents here complained a year ago when the station began broadcasting from a tower on a mountaintop near here that the signals were so strong that they got educational programming on every channel. The protests resulted in the station shutting down for a short time to permit viewing of an OJ football telecast last year. OETA crews began installing "traps" on area televisions to alleviate the problem, but Mrs. Wemberly said residents in the area still have varying degrees of interference. Many residents in the area have always used "signal boosters" to pull in Tulsa television stations in the mountainous area. (Quinton is about 80 miles from Tulsa.)

"Some people can see Channel 3 in the background of Channel 8 and Channel 6 scenes and goes. Sometimes you can watch a 30-minute program. Channel 2 is no more. But we get a wonderful Sesame Street." She said about 20,000 people are affected. "The bureaucrats in Washington and Oklahoma City keep telling us they've fixed everything. They tell us we never could get Tulsa stations anyway, because we're too far away. They don't realize that we're not ignorant, and we do watch TV down here in the mountains. We've tried everything. We have written (Sens.) Bellmon and Bartlett, state officials, and exhausted every avenue that anyone has suggested to us. We've gone to all kinds of trouble and I guess we were very naive in thinking that we could buck the government," she said.

The Federal Communications Commission recently granted the station a permanent license to operate. (From the Tulsa Tribune, Oct. 23, 1978. Submitted by Danny Buntin)

Waterloo Effect

A particularly troublesome problem arises when the frequency difference between the frequency (IF) of the affected receiver and the frequency of the interfering station is small. This type of interference, which I will call, for lack of a better name, the "Waterloo effect," has become apparent in Waterloo, Ontario, Canada. The station involved is CKMS, a 100kW vertical, 8kW horizontal, transmitter located on a hill tower (CKMS tower) about 10.6 or 10.8 MHz which the IF stages of many receivers are not sufficiently selective to reject. The result is that the signal is received in a very poor, inefficient degree, with the result that it appears as a "ghost" signal in the usual manner.

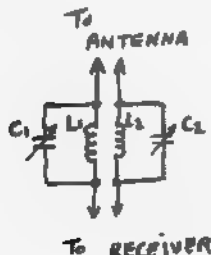
This problem is avoided by the FCC/CRS rule that stations must be separated by a minimum of 10.6 or 10.8 MHz for stations whose frequencies are separated by less than 10.6 or 10.8 MHz. This type of interference, which I will call, for lack of a better name, the "Waterloo effect," has become apparent in Waterloo, Ontario, Canada. The station involved is CKMS, a 100kW vertical, 8kW horizontal, transmitter located on a hill tower (CKMS tower) about 10.6 or 10.8 MHz which the IF stages of many receivers are not sufficiently selective to reject. The result is that the signal is received in a very poor, inefficient degree, with the result that it appears as a "ghost" signal in the usual manner.

When the problem became apparent when CKMS went on the air, many experiments were started by myself in an attempt to find a solution to the "Waterloo effect," which locally, is a sore point among FM listeners. The problem can be solved by reducing the signal input to the receiver front end, but the degree of attenuation necessary also eliminates all but the local signals. The easiest solution is the installation of a parallel-tuned filter in the (balanced) antenna lead. The filter, which should be connected to the receiver with a short piece of lead only, consists of small (30pf) mica compressor trimmer capacitors in parallel with half a dozen turns of wire wound on a 1/2 inch form such that the coil length is 2 inches, placed in both transmission line conductors. The filter can be tuned to reject the frequency of the interfering signals; this is best done by tuning the receiver to a frequency that is clear except for the "Waterloo effect," then tuning the filter for minimum signal, then repeat while tuned for a signal of moderate strength; the final peaking should be done while listening to a weak station. Filters were constructed and installed in two different stereo receivers, using a folded dipole antenna. In one case, the filter eliminated the "Waterloo effect"; the effect was all but eliminated in the second case.

Other possible solutions would include retuning the IF transformer to a slightly different frequency to reject the undesired signal. It should be noted that the parallel tuned filter must be properly aligned; in some cases, slight retuning may be necessary when receiving different stations; replacing the trimmer capacitors with small air variable capacitors would make tuning the filter easier and less confusing.

I would like to thank the people of Central General College, Waterloo, Ont., for making their FM receivers available for testing, and in particular, Bill Baker and Harold Ryckoff, on whose receivers the filters were installed and tested.

— Deane D. McIntyre



$C_1, C_2 = 30\text{pf}$ mica trimmer

$L_1, L_2 = 6$ turns copper wire
1/2 inch form
2 inch long

A STANDARD TESTING & RATING SYSTEM FOR FM DX TUNERS

evaluating the DX performance of DXers is a difficult matter. Some of the reasons follow.

First, the test area equipment under normal conditions and may be interested in very test results. Second, may therefore specify performance under conditions that may be difficult to achieve; they want their project to look good, so frequently their data is not very realistic.

In order to use any single rating system, it is necessary to employ some controls. First, it is necessary to have a DX station (QRP) (wire antenna.) I suggest the antenna is attached to curtain or taped to the wall with the end suspended vertically about 5 feet above floor level. Next, a period of moderate tropo activity will allow a statistically larger sample of signals to be received with reasonable consistency.

Prepare a logging sheet to list all stations received by frequency. Mark the local stations on this sheet; local stations are very strong stations within approximately 30 air miles from the receiving location. Record all stations received starting at the low end of the band and tuning toward 100 MHz; later you can tune back down as a check. List the approximate location of each station and note whether the signal was received in or out of phase. This data will be used as reference data later.

Next, count how many adjacent channel signals were heard; this will be represented by "a" in the formula. There will only be one signal allowed per channel.

If you have a local signal on 95.3 MHz, the adjacent channel signals are 95.1 and 95.5 MHz. In general there will be two adjacent channel signals for each local station; in some cases due to overlap, there will be less. If you have signals at 95.3 and 95.7 locally, you will have only three adjacent signals possible about these stations on 95.1, 95.5 and 95.9. Determine by counting the maximum number of adjacent channels possible to receive. Record this as "A" for the formula below. Count the total stations (including locals) received and record this as "r" in your data. Do not include spurious responses; count stations operating on an assigned frequency as tuned only.

To calculate the DX rating of the tuner, insert your data into the formula:

$$DX \text{ rating} = 1.4r \left(\frac{r}{A} \right)^2$$

where: r = stations received
a = number of adjacents received
A = total adjacents possible

As an example, a tuner provides the following data: r = 62, a = 6, A = 10. This tuner rates 31 on the scale. If your tuner achieves a score of 60 or more, it is probably quite good. This formula is based upon tuner sensitivity (r) and strongly dependent upon selectivity (a); the formula was empirically generated.

The test method above achieves a measure of tuner performance without electronic test equipment. This procedure achieves a uniform basis for comparison between DXers and imposes certain controls to provide reasonable results.

The author is interested in obtaining data from club members concerning different types of equipment. If enough information is received, a follow-up article will report the results in all members.

- Mike Dalton
c/o Dalton Audio
1540 Drew Street
Clearwater, FL 33515



Technical Articles...Dave Hammer has retyped two articles for this month that appear towards the end of this issue. Dave has been the only volunteer to retype materials for the VUD. Thanks Dave!

WRTVH 1979...Don Erickson is now taking advance orders for the 1979 World Radio TV Handbook which will retail for \$14.95. Copies will be air freighted from Europe and re-shipped by UPS. The advance order price is \$12 is good until the 31st. All profits will be turned over to the Handicapped Aid Program. All orders must be accompanied by remittance payable in U.S. dollars. Personal checks, money orders, and bank checks are acceptable in the U.S. Canadians, please use International Money Order. Each order must be accompanied by a stamped, self-addressed envelope. Canadians, please place an unattached postage stamp inside the envelope. After the 31st price will be \$14 and air freight delivery can not be guaranteed. Publication is not expected until February or March but orders are required now to arrange for air shipment. NAB or WFTDA does not accept responsibility for this order and all complaints/inquiries should be addressed to Don Erickson. Please make all funds payable to DON ERICKSON and mail early enough to arrive no later than 12/31/79. Please mark envelopes "WRTVH 1979" in lower left-hand corner and mail to: Donald Erickson, 6059 Essex St., Riverside CA 92504.

CCI...Bill Draeb reports little information has been sent in recently so the column will not appear this month. Bill Block and Frank Aden have listened to the tape sent in by Roger Bunny concerning the reception of the A2 and A3 stations in England (see Nov. CCI, page 20). The station on the tape does appear to be an American and the most interesting part that is intelligible is "at 7:30 on NTV" or "NBC" or "NTZ". Since only NTV (Nebraska Education TV) makes sense we would guess the station is KLINE-3. There is a very distinctive music played during this promo that fits the format of a US educational station. It may also be that the station is a member of the "Newfoundland Broadcasting Co.", (NBC) as it is not a NBC (US network) promo. We doubt it is Newfoundland though as the accent does not sound Canadian. "NTZ" does not have any known references as far as we know. We will be sending a copy to KLINE and when more information is known it will be passed on to Bill Draeb.

Thanks!...We would like to thank Bill Block who helped put this issue together. Thanks Bill!

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Andy Bellis

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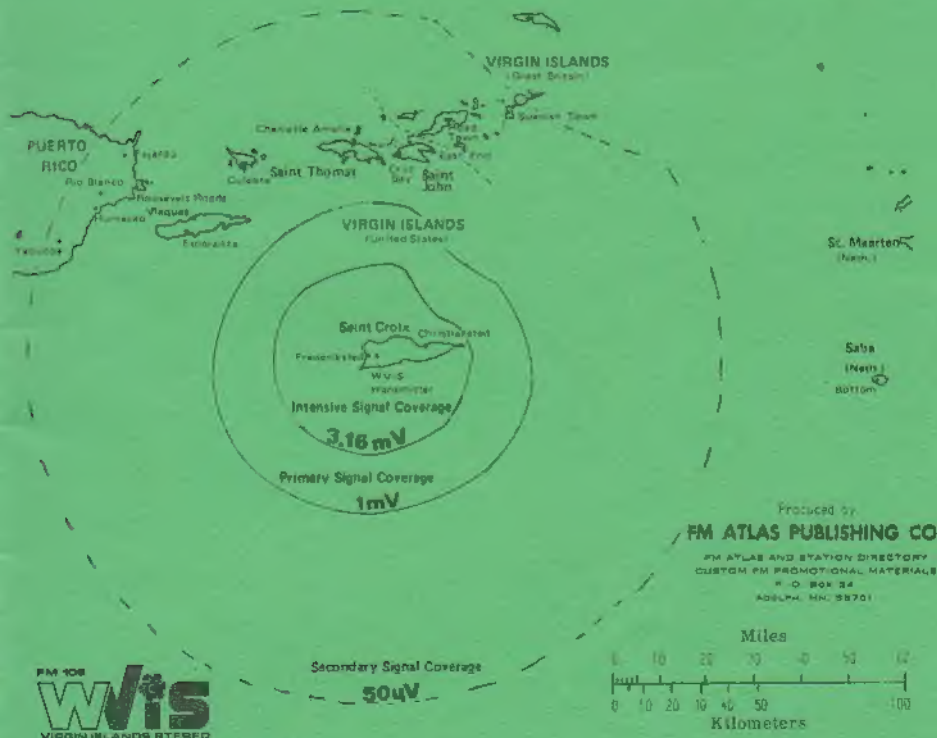
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Bill Thompson News VUD Editor... Bill Thompson has been selected as the new editor-in-chief. All columns and feature articles should now be sent to him at 1507 Seneca St., Buffalo NY 14210. Anyone interested in taking over for Eastern TV-DX or Western TV-DX editor is asked to write Bill. Let's all hope the membership can give Bill their full support. Good luck Bill!

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